

California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, CA 92501-3348

NOTICE OF PUBLIC HEARING

for
WASTE DISCHARGE AND PRODUCER/USER WATER RECYCLING REQUIREMENTS
(National Pollutant Discharge Elimination System Permit)
ORDER NO. R8-2005-0043, NPDES NO. CA8000100
for
LEE LAKE WATER DISTRICT
WASTEWATER RECLAMATION FACILITY
Riverside County

On the basis of preliminary staff review and application of lawful standards and regulations, the California Regional Water Quality Control Board, Santa Ana Region, proposes to reissue waste discharge and producer/user water recycling requirements for the Lee Lake Water District's Wastewater Reclamation Facility for the discharge of tertiary treated wastewater to Temescal Creek, a tributary to the Santa Ana River, Reach 3.

The Board is seeking comments concerning the proposed waste discharge requirements and the potential effects of the discharge on the water quality and beneficial uses of the affected receiving waters.

The Board will hold a public hearing to consider adoption of the proposed waste discharge requirements as follows:

DATE: August 26, 2005
TIME: 12:30 p.m.
PLACE: Big Bear Municipal Water District Conference Room
40524 Lakeview Drive
Big Bear Lake

Interested persons are invited to submit written comments on the proposed Order No. R8-2005-0043. Interested persons are also invited to attend the public hearing and express their views on issues relating to the proposed Order. Oral statements will be heard, but should be brief to allow all interested persons time to be heard. For the accuracy of the record, all testimony (oral statements) should be submitted in writing.

Although all comments that are provided up to and during the public hearing on this matter will be considered, receipt of comments by August 8, 2005 would be appreciated so that they can be used in the formulation of the draft Order that will be transmitted to the Board two weeks prior to the hearing. The draft Order may contain changes resulting from comments received from the public. To view on/or download a copy of the draft Order, please access our website at www.swrcb.ca.gov/rwqcb8 on or after August 15, 2005.

The Board's proposed Order, related documents, and all comments and petitions received may be inspected and copied at the Regional Board office, 3737 Main Street, Suite 500, Riverside, CA 92501-3348 (phone 951-782-4130) by appointment scheduled between the hours of 9:00 a.m. and 3:00 p.m., Monday through Friday. Copies of the proposed Order will be mailed to interested persons upon request to J. Shami (951) 782-3288.

Any person who is physically challenged and requires reasonable accommodation to participate in this Regional Board Meeting should contact Catherine Ehrenfeld at (951) 782-3285 no later than August 15, 2005.

California Regional Water Quality Control Board
Santa Ana Region

August 26, 2005

ITEM:

SUBJECT: Reissuance of Waste Discharge Requirements for the Lee Lake Water District's Wastewater Reclamation Facility, Order No. R8-2005-0043, NPDES No. CA8000100, Riverside County

DISCUSSION:

See attached Fact Sheet

RECOMMENDATIONS:

Adopt Order No. R8-2005-0043, NPDES No. CA8000100 as presented.

COMMENT SOLICITATION:

Comments were solicited from the discharger and the following agencies:

U.S. Environmental Protection Agency, Permits Issuance Section (WTR-5) – Doug Eberhardt
U.S. Army District, Los Angeles, Corps of Engineers, Regulatory Branch
U.S. Fish and Wildlife Service – Carlsbad
State Water Resources Control Board, Office of the Chief Counsel – Jorge Leon
State Water Resources Control Board, Division of Water Quality – Jim Maughan
California Department of Health Services, San Diego – Steve Williams
State Department of Water Resources - Glendale
State Department of Fish and Game – Long Beach
Orange County Water District – Nira Yamachika
Riverside County Department of Environmental Health Services
Riverside County Transportation/Flood Control Department
Santa Ana River Dischargers Association
City of Corona – Don Williams
Orange County Coastkeeper – Garry Brown
Lawyers for Clean Water C/c San Francisco Baykeeper
Dudek & Associates , Inc. – John Thayer



Alan C. Lloyd, Ph.D.
Agency Secretary

California Regional Water Quality Control Board

Santa Ana Region

3737 Main Street, Suite 500, Riverside, California 92501-3348
Phone (951) 782-4130 - FAX (951) 781-6288 - TTY (951) 782-3221

<http://www.waterboards.ca.gov/santaana>



Arnold Schwarzenegger
Governor

ORDER NO. R8-2005-0043
NPDES NO. CA8000100

The following Discharger is authorized to discharge in accordance with the waste discharge requirements set forth in this Order:

| | |
|-------------------------|--|
| Discharger | Lee Lake Water District |
| Name of Facility | Lee Lake Water Reclamation Facility, Corona |
| Facility Address | 22646 Temescal Canyon Road |
| | Corona, CA 92883 |
| | Riverside County |

The Discharger is authorized to discharge from the following discharge points as set forth below:

| Discharge Point | Effluent Description | Discharge Point Latitude | Discharge Point Longitude | Receiving Water |
|------------------------|---|---------------------------------|----------------------------------|--|
| 001 | Tertiary treated and disinfected | 33 ° , 49' , 42" N | 117° , 30' , 45" W | Temescal Creek, Reach 2 |
| 002 | Tertiary treated and disinfected | 33 ° , 47' , 683" N | 117° , 30' , 588" W | Bedford Groundwater Management Zone |

| | |
|--|------------------------|
| This Order was adopted by the Regional Water Board on: | August 26, 2005 |
| This Order shall become effective on: | August 26, 2005 |
| This Order shall expire on: | August 26, 2010 |
| The U.S. Environmental Protection Agency (U.S. EPA) and the Regional Water Board have classified this discharge as a major discharge. | |
| The Discharger shall file a Report of Waste Discharge in accordance with Title 23, California Code of Regulations, <u>not later than 180 days in advance of the Order expiration date</u> as application for issuance of new waste discharge requirements. | |

IT IS HEREBY ORDERED, that Order No. R8-2002-0001 is superseded upon the effective date of this Order except for enforcement purposes, and, in order to meet the provisions contained in Division 7 of the California Water Code (CWC) and regulations adopted thereunder, and the provisions of the federal Clean Water Act (CWA), and regulations and guidelines adopted thereunder, the Discharger shall comply with the requirements in this Order.

I, Gerard J. Thibeault, Executive Officer, do hereby certify that Order No. R8-2005-0043 with all attachments is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on August 26, 2005.

Gerard J. Thibeault, Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
REGION 8, SANTA ANA REGION**

**ORDER NO. R8-2005-0043
NPDES NO. CA8000100**

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I. FACILITY INFORMATION

The following Discharger is authorized to discharge in accordance with the Waste Discharge Requirements set forth in this Order:

| | |
|---|---|
| Discharger | Lee Lake Water District |
| Name of Facility | Lee Lake Water Reclamation Facility, Corona |
| Facility Address | 22646 Temescal Canyon Road |
| | Corona, CA 92883 |
| | Riverside County |
| Facility Contact, Title, and Phone | John Pastore, General Manager, (909) 277-1414 |
| Mailing Address | Same as facility address |
| Type of Facility | POTW |
| Facility Design Flow | 1.58 million gallons per day (mgd) |

II. FINDINGS

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Water Board), finds:

- A. Background.** Lee Lake Water District (hereinafter Discharger) is currently discharging pursuant to Order No. R8-2002-0001 and National Pollutant Discharge Elimination System (NPDES) Permit No. CA8000100. The Discharger submitted a Report of Waste Discharge, dated December 20, 2004, and applied for a NPDES permit modification/reissuance to discharge up to 1.58 mgd of tertiary treated wastewater from Lee Lake Water Reclamation Facility, hereinafter Facility.
- B. Facility Description.** The Discharger owns and operates a tertiary treatment facility. The treatment system consists of screening, grit removal, sequencing batch reactors (activated sludge/secondary clarification), flow equalization, flocculation, filtration, chlorination and dechlorination. Wastewater is discharged to Temescal Creek, Reach 2, a water of the United States and a tributary to Santa Ana River, Reach 3 within the Santa Ana River Watershed. Attachment B provides a map of the area around the facility. Attachment C provides a flow schematic of the facility.
- C. Legal Authorities.** This Order is issued pursuant to Section 402 of the Federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. Environmental Protection Agency (USEPA) and Chapter 5.5, Division 7 of the California Water Code (CWC). It shall serve as a NPDES permit for point source discharges from this facility to surface waters. This Order also serves as Waste Discharge Requirements (WDRs) pursuant to Article 4, Chapter 4 of the CWC.

- D. Background and Rationale for Requirements.** The Regional Water Board developed the requirements in this Order based on information submitted as part of the application and through monitoring and reporting programs. Attachment F, which contains background information and rationale for Order requirements, are hereby incorporated into this Order and, constitute part of the Findings for this Order. Attachments A through E and G through K are also incorporated into this Order.
- E. California Environmental Quality Act (CEQA).** This action to adopt an NPDES permit is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 21100, et seq.) in accordance with Section 13389 of the CWC.
- F. Technology-based Effluent Limitations.** The Code of Federal Regulations (CFR) at 40 CFR §122.44(a) requires that permits include applicable technology-based limitations and standards. This Order includes technology-based effluent limitations based on tertiary treatment or equivalent requirements that meet both the technology-based secondary treatment standards for publicly owned treatment works (POTWs) and protect the beneficial uses of the receiving waters. A detailed discussion of the technology-based effluent limitations development is included in the Fact Sheet (Attachment F).
- G. Water Quality-based Effluent Limitations.** Section 122.44(d) of 40 CFR requires that permits include water quality-based effluent limitations (WQBELs) to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water. Where numeric water quality objectives have not been established, 40 CFR §122.44(d) specifies that WQBELs may be established using USEPA criteria guidance under CWA section 304(a), proposed State criteria or a State policy interpreting narrative criteria supplemented with other relevant information, or an indicator parameter. EPA and the State Water Board have determined that for toxic pollutants discharges to non-ocean waters, it is not practicable to express water quality-based effluent limitations as an average weekly and an average monthly, and recommend using a maximum daily and an average monthly effluent limitation for such discharges. This Order implements this recommendation.
- H. Water Quality Control Plans.** The Regional Water Board adopted a revised Water Quality Control Plan for the Santa Ana Region (hereinafter Basin Plan) that became effective on January 24, 1995. The Basin Plan designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters in the Santa Ana Region addressed through the plan. More recently, the Basin Plan was amended significantly to incorporate revised boundaries for groundwater subbasins, now termed “management zones”, new nitrate-nitrogen and TDS objectives for the new management zones, and new nitrogen and TDS management strategies applicable to both surface and ground waters. This Basin Plan Amendment was adopted by the Regional Water Board on January 22, 2004. The State Water Resources Control Board and Office of Administrative Law (OAL) approved the Amendment on September 30, 2004 and December 23, 2004, respectively. In addition, State Water Resources Control Board (State Water Board) Resolution No. 88-63 requires that, with certain exceptions, the Regional Water Board assign the municipal and domestic supply use to water bodies that do not have beneficial uses listed in the Basin Plan. Beneficial uses applicable to receiving waters are as follows:

| Discharge Point | Receiving Water Name | Beneficial Use(s) |
|-----------------|-------------------------------------|---|
| M-EFF | Temescal Creek, Reach 2* | Water contact recreation, Non-contact water recreation, Warm freshwater habitat, and Wildlife habitat |
| | Santa Ana River, Reach 3* | Agricultural supply, Groundwater recharge, Water contact recreation, Non-contact water recreation, Warm freshwater habitat, Wildlife habitat, and Rare, threatened, and endangered species. |
| | Bedford Groundwater Management Zone | Municipal and domestic supply, Agricultural supply, Industrial process supply, and Industrial service supply. |

* Excepted from MUN

Requirements of this Order specifically implement the applicable Water Quality Control Plans.

- I. **Stormwater.** On April 17, 1997, the State Board adopted the General Industrial Storm Water Permit, Order No. 97-03-DWQ, NPDES No. CAS000001. This General Permit implements the Final Regulations (40 CFR 122, 123, and 124) for storm water runoff published on November 16, 1990 by EPA in compliance with Section 402(p) of the Clean Water Act (CWA). This Order includes pertinent provisions of the General Industrial Storm Water permit appropriate for this discharge. The Regional Water Board has determined that pollution prevention is necessary to achieve water quality objectives. Consequently this Order requires the Discharger to establish, update as necessary and implement a pollution prevention plan and stormwater monitoring.
- J. **National Toxics Rule (NTR) and California Toxics Rule (CTR).** USEPA adopted the NTR on December 22, 1992, which was amended on May 4, 1995 and November 9, 1999, and the CTR on May 18, 2000, which was amended on February 13, 2001. These rules include water quality criteria for priority pollutants and are applicable to this discharge.
- K. **State Implementation Policy.** On March 2, 2000, the State Water Board adopted the *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (State Implementation Policy or SIP). The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria promulgated for California by the USEPA through the NTR and to the priority pollutant objectives established by the Regional Water Boards in their basin plans, with the exception of the provision on alternate test procedures for individual discharges that have been approved by USEPA Regional Administrator. The alternate test procedures provision was effective on May 22, 2000. The SIP became effective on May 18, 2000. The SIP includes procedures for determining the need for and calculating WQBELs and requires Dischargers to submit data sufficient to do so.

- L. Antidegradation Policy.** Section 131.12 of 40 CFR requires that State water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution 68-16, which incorporates the requirements of the federal antidegradation policy. Resolution 68-16 requires that existing quality of waters be maintained unless degradation is justified based on specific findings. As discussed in the Fact Sheet (Attachment F) the permitted discharge is consistent with the antidegradation provision of 40 CFR §131.12 and State Water Board Resolution 68-16.
- M. Anti-Backsliding Requirements.** Sections 402(o)(2) and 303(d)(4) of the CWA and federal regulations at 40 CFR § 122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require effluent limitations in a reissued permit to be as stringent as those in the previous permit, with some exceptions where limitations may be relaxed. All effluent limitations in this Order are at least as stringent as the effluent limitations in the previous Order No. R8-2002-0001.
- N. Monitoring and Reporting.** Section 122.48 of 40 CFR requires that all NPDES permits specify requirements for recording and reporting monitoring results. Sections 13267 and 13383 of the CWC authorize the Regional Water Boards to require technical and monitoring reports. The Monitoring and Reporting Program establishes monitoring and reporting requirements to implement federal and State requirements. This Monitoring and Reporting Program is provided in Attachment E.
- O. Standard and Special Provisions.** Standard Provisions, which in accordance with 40 CFR §§122.41 and 122.42, apply to all NPDES discharges and must be included in every NPDES permit, are provided in Attachment D. The Regional Water Board has also included in this Order special provisions applicable to the Discharger. A rationale for the special provisions contained in this Order is provided in the attached Fact Sheet (Attachment F).
- P. Notification of Interested Parties.** The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe Waste Discharge Requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Details of notification are provided in the Fact Sheet (Attachment F) of this Order.
- Q. Consideration of Public Comment.** The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge. Details of the Public Hearing are provided in the Fact Sheet (Attachment F) of this Order.

III. DISCHARGE PROHIBITIONS

- A. Wastes discharged shall be limited to tertiary treated and disinfected effluent.
- B. Discharge of wastewater at a location or in a manner different from that described in the Findings is prohibited.
- C. The bypass or overflow of untreated wastewater or wastes to surface waters or surface water drainage courses is prohibited, except as allowed in Standard Provision I.H. of Attachment D, Federal Standard Provisions.
- D. The discharge of any substances in concentrations toxic to animal or plant life in the affected receiving water is prohibited.
- E. The discharge of any radiological, chemical, or biological warfare agent or high level radiological waste is prohibited.

IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

A. Effluent Limitations:

1. Final Effluent Limitations

- a. The discharge of tertiary treated wastewater shall maintain compliance with the following effluent limitations, with compliance measured at the effluent box monitoring location, as described in the attached Monitoring and Reporting Program (Attachment E):

| Parameter | Units | Effluent Limitations | | | | |
|--|----------------|----------------------|----------------|---------------|-----------------------|-----------------------|
| | | Average Monthly | Average Weekly | Maximum Daily | Instantaneous Minimum | Instantaneous Maximum |
| Biochemical Oxygen Demand 5-day @ 20°C | mg/L | 20 | 30 | -- | -- | -- |
| | lbs/day | 264 | 395 | -- | -- | -- |
| Total Suspended Solids | mg/L | 20 | 30 | -- | -- | -- |
| | lbs/day | 264 | 395 | -- | -- | -- |
| PH | standard units | -- | -- | -- | 6.5 | 8.5 |
| Total Chlorine Residual | mg/L | -- | -- | -- | -- | 0.1 |
| Copper ¹ | ug/L | 24 | -- | 45 | -- | -- |
| | lbs/day | 0.32 | -- | 0.59 | -- | -- |
| Selenium ¹ | ug/L | 4 | -- | 8 | -- | -- |
| | lbs/day | 0.05 | -- | 0.11 | -- | -- |

¹ Limits for hardness dependent metals were computed based on a 130 mg/l hardness value.

- b. Percent Removal: The average monthly percent removal of BOD 5-day 20°C and total suspended solids shall not be less than 85 percent.
- c. TDS Limitations: For Discharge Specifications A. 1.c.(1) and 1.c.(2), the lower of the two total dissolved solids limit is the limit.
 - (1) The 12-month average total dissolved solids concentration shall not exceed 650 mg/l and the 12-month average mass emission rate shall not exceed 8,457 lbs/day², and
 - (2) The 12-month average total dissolved solids concentration shall not exceed the 12-month average total dissolved solids concentration in the water supply by more than 250 mg/l.
- d. Total Inorganic Nitrogen (TIN) Limitations: The 12-month average TIN concentration and mass emission rate shall not exceed 13 mg/l and 171 lbs per day³, respectively.
- e. The discharge shall at all times be adequately oxidized, filtered, and disinfected tertiary treated wastewater and shall meet the following limitations:
 - (1) The turbidity of the filter effluent shall not exceed any of the following:
 - (a) Average of 2 Nephelometric Turbidity Unit (NTU) within any 24-hour period;
 - (b) 5 NTU more than 5 percent of the time in any 24-hour period; and
 - (c) 10 NTU at any time.
 - (2) The 7-day median number of total coliform shall not exceed a Most Probable Number (MPN) of 2.2 total coliform bacteria per 100 milliliters (ml).
 - (3) The number of total coliform organism shall not exceed an MPN of 23 total coliform bacteria per 100 ml in more than one sample in any 30-day period.
 - (4) No total coliform sample shall exceed an MPN of 240 total coliform bacteria per 100 ml.

B. Toxicity Requirements:

- 1. There shall be no acute or chronic toxicity in the plant effluent nor shall the plant effluent cause any acute or chronic toxicity in the receiving water. All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in human, plant, animal, or indigenous aquatic life. This Order contains no numeric limitation for toxicity. However, the discharger shall conduct chronic toxicity monitoring.
- 2. The discharger shall implement the accelerated monitoring specified in Attachment E when the result of any single chronic toxicity test of the effluent exceeds 1.0 TUc.

² Calculated from $1.58 \text{ mgd} \times 8.34 \times 650 \text{ mg/l}$.

³ Calculated from $1.58 \text{ mgd} \times 8.34 \times 13 \text{ mg/l}$.

3. The discharger shall develop an Initial Investigation Toxicity Reduction Evaluation (IITRE) work plan that describes the steps the discharger intends to follow if required by Toxicity Requirement No. 4, below. The work plan shall include at a minimum:
 - a. A description of the investigation and evaluation techniques that will be used to identify potential causes/sources of the exceedance, effluent variability, and/or efficiency of the treatment system in removing toxic substances. This shall include a description of an accelerated chronic toxicity testing program.
 - b. A description of the methods to be used for investigating and maximizing in-house treatment efficiency and good housekeeping practices.
 - c. A description of the evaluation process to be used to determine if implementation of a more detailed TRE/TIE is necessary.
4. The discharger shall implement the IITRE work plan whenever the results of chronic toxicity tests of the effluent exceed:
 - a. A two month median value of 1.0 TUC for survival or reproduction endpoint or,
 - b. Any single test value of 1.7 TUC for survival endpoint.
5. The discharger shall develop a detailed Toxicity Reduction Evaluation and Toxicity Identification Evaluation (TRE/TIE) work plan that shall describe the steps the discharger intends to follow if the implemented IITRE fails to identify the cause of, or rectify, the toxicity.
6. The discharger shall use as guidance, at a minimum, EPA manuals EPA/600/2-88/070 (industrial), EPA/600/4-89-001A (municipal), EPA/600/6-91/005F (Phase I), EPA/600/R-92/080 (Phase II), and EPA-600/R-92/081 (Phase III) to identify the cause(s) of toxicity. If during the life of this Order the aforementioned EPA manuals are revised or updated, the revised/updated manuals may also be used as guidance. The detailed TRE/TIE work plan shall include:
 - a. Further actions to investigate and identify the cause of toxicity;
 - b. Actions the discharger will take to mitigate the impact of the discharge and to prevent the recurrence of toxicity; and
 - c. A schedule for these actions.
7. The discharger shall implement the TRE/TIE workplan if the IITRE fails to identify the cause of, or rectify, the toxicity, or if in the opinion of the Executive Officer the IITRE does not adequately address an identified toxicity problem.
8. The discharger shall assure that adequate resources are available to implement the required TRE/TIE.

C. Reclamation Specifications:

1. Beginning August 26, 2005, the use of tertiary treated recycled water shall maintain compliance with the following limitations at end of the pipe outfall into recycled water use area, compliance measured at monitoring location where representative samples of recycled water can be obtained for laboratory testing and analysis as described in the attached Monitoring and Reporting Program (Attachment E).
2. The use of recycled water shall only commence after final approval for such use is granted by the California Department of Health Services (CDHS). The Discharger shall provide the Regional Water Board with a copy of the CDHS approval letter within 30 days of the approval notice.
3. The Discharger shall be responsible for assuring that recycled water is delivered and utilized in conformance with this Order, the recycling criteria contained in Title 22, Division 4, Chapter 3, Sections 60301 through 60355, California Code of Regulations, and the "Guidelines for Use of Reclaimed Water" by the California Department of Health Services. The discharger shall conduct periodic inspections of the facilities of the recycled water users to monitor compliance by the users with this Order.
4. The Discharger shall establish and enforce Rules and Regulations for Recycled Water users, governing the design and construction of recycled water use facilities and the use of recycled water in accordance with the uniform statewide recycling criteria established pursuant to the California Water Code Section 13521.
 - a. Use of recycled water by the discharger shall be consistent with its Rules and Regulations for Recycled Water Use.
 - b. Any revisions made to the Rules and Regulations shall be subject to the review of the Regional Water Board, the California Department of Health Services, and the County of Riverside Department of Environmental Health. The revised Rules and Regulations or a letter certifying that the discharger's Rules and Regulations contain the updated provisions in this Order, shall be submitted to the Regional Water Board within 60 days of adoption of this Order by the Regional Water Board.
5. The Discharger shall, within 60 days of the adoption of this Order, review and update as necessary its program to conduct compliance inspections of recycled water reuse sites. Inspections shall determine the status of compliance with the discharger's Rules and Regulations for Recycled Water Use.
6. The storage, delivery, or use of recycled water shall not individually or collectively, directly or indirectly, result in a pollution or nuisance, or adversely affect water quality, as defined in the California Water Code

7. Prior to delivering recycled water to any new user, the discharger shall submit to the Regional Water Board, the California Department of Health Services and the Riverside County Health Department a report containing the following information for review and approval:
 - a. The average number of persons estimated to be served at each use site area on a daily basis.
 - b. The specific boundaries of the proposed use site area including a map showing the location of each facility, drinking water fountain, and impoundment to be used.
 - c. The person or persons responsible for operation of the recycled water system at each use area.
 - d. The specific use to be made of the recycled water at each use area.
 - e. The methods to be used to assure that the installation and operation of the recycled system will not result in cross connections between the recycled water and potable water piping systems. This shall include a description of the pressure, dye or other test methods to be used to test the system.
 - f. Plans and specifications which include following:
 - 1) Proposed piping system to be used.
 - 2) Pipe locations of both the recycled and potable systems.
 - 3) Type and location of the outlets and plumbing fixtures that will be accessible to the public.
 - 4) The methods and devices to be used to prevent backflow of recycled water into the potable water system.
 - 5) Plan notes relating to specific installation and use requirements.
8. The Discharger shall require the user(s) to designate an on-site supervisor responsible for the operation of the recycled water distribution system within the recycled water use area. The supervisor shall be responsible for enforcing this Order, prevention of potential hazards, the installation, operation and maintenance of the distribution system, maintenance of the distribution and irrigation system plans in "as-built" form, and for the distribution of the recycled wastewater in accordance with this Order.

V. RECEIVING WATER LIMITATIONS

A. Surface Water Limitations

1. Receiving water limitations are based upon water quality objectives contained in the Basin Plan. As such, they are a required part of this Order. The discharge shall not cause the following in Temescal Creek, in the Santa Ana River, Reach 3, or in downstream Reaches of the Santa Ana River:
 - a. Coloration of the receiving waters, which causes a nuisance or adversely affects beneficial uses.

- b. Deposition of oil, grease, wax or other materials in the receiving waters in concentrations which result in a visible film or in coating objects in the water, or which cause a nuisance or affect beneficial uses.
 - c. An increase in the amounts of suspended or settleable solids in the receiving waters, which will cause a nuisance or adversely affect beneficial uses as a result of controllable water quality factors.
 - d. Taste or odor-producing substances in the receiving waters at concentrations, which cause a nuisance or adversely affect beneficial uses.
 - e. The presence of radioactive materials in the receiving waters in concentrations, which are deleterious to human, plant or animal life.
 - f. The depletion of the dissolved oxygen concentration below 5.0 mg/l.
 - g. The temperature of the receiving waters to be raised above 90°F (32°C) during the period of June through October, or above 78°F (26°C) during the rest of the year.
 - h. The concentration of pollutants in the water column, sediments, or biota to adversely affect the beneficial uses of the receiving water. The discharge shall not result in the degradation of inland surface water communities and populations, including vertebrate, invertebrate, and plant species.
2. The discharge of wastes shall not cause a violation of any applicable water quality standards for receiving waters adopted by the Board or State Board, as required by the Clean Water Act and regulations adopted thereunder.
 3. Pollutants not specifically mentioned and limited in this Order shall not be discharged at levels that will bioaccumulate in aquatic resources to levels, which are harmful to human health.
 4. The discharge shall not contain constituent concentrations of mercury that will result in the bioaccumulation of methylmercury in fish flesh tissue greater than 0.3 milligram methylmercury/kilogram .

B. Groundwater Limitations for recycled water use at sites overlying the Bedford Groundwater Management Zone

1. The discharge shall not cause the underlying groundwater to be degraded, unreasonably affect beneficial uses, or cause a condition of pollution or nuisance.
2. The discharge, in combination with other sources, shall not cause underlying groundwater to contain waste constituents in concentrations greater than background water quality.

VI. PROVISIONS

A. Standard Provisions

1. **Federal Standard Provisions.** The Discharger shall comply with all Standard Provisions included in Attachment D of this Order.
2. **Regional Water Board Standard Provisions.** The Discharger shall comply with the following provisions:
 - a. Neither the treatment nor the discharge of waste shall create, or threaten to create, a nuisance or pollution as defined by Section 13050 of the California Water Code.
 - b. The discharger shall optimize chemical additions needed in the treatment process to meet waste discharge requirements so as to minimize total dissolved solid increases in the recycled water.
 - c. The discharger shall conduct a Pollutant Minimization Program (PMP) when there is evidence that the priority pollutant is present in the effluent above an effluent limitation (e.g., sample results reported as detected but not quantified (DNQ) when the effluent limitation is less than the MDL, sample results from analytical methods more sensitive than those methods included in the permit, presence of whole effluent toxicity, health advisories for fish consumption, results of benthic or aquatic organism tissue sampling) and either: (i) A sample result is reported as DNQ and the effluent limitation is less than the reported ML; or (ii) A sample result is reported as ND and the effluent limitation is less than the MDL. The PMP shall include, but not be limited to, the following actions and submittals acceptable to the Regional Water Board:
 - (1) An annual review and semi-annual monitoring of potential sources of the reportable priority pollutant(s), which may include fish tissue monitoring and other bio-uptake sampling;
 - (2) Quarterly monitoring for the reportable priority pollutant(s) in the influent to the wastewater treatment system;
 - (3) Submittal of a control strategy designed to proceed toward the goal of maintaining concentrations of the reportable priority pollutant(s) in the effluent at or below the effluent limitation;
 - (4) Implementation of appropriate cost-effective control measures for the reportable priority pollutant(s), consistent with the control strategy; and
 - (5) An annual status report that shall be sent to the Regional Water Board including:
 - (a) All PMP monitoring results for the previous year;
 - (b) A list of potential sources of the reportable priority pollutant(s);
 - (c) A summary of all actions undertaken pursuant to the control strategy; and
 - (d) A description of actions to be taken in the following year.

- d. The discharger shall maintain a copy of this Order at the site so that it is available to site operating personnel at all times. Key operating personnel shall be familiar with its content.
- e. The discharger shall take all reasonable steps to minimize any adverse impact to receiving waters resulting from noncompliance with any requirements specified in this Order, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.
- f. The provisions of this Order are severable, and if any provision of this Order, or the application of any provisions of this Order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Order shall not be affected thereby.
- g. Collected screenings, sludge, and other solids removed from liquid wastes shall be disposed of in a manner approved by the Regional Water Board's Executive Officer.
- h. If the discharger demonstrates a correlation between the biological oxygen demand (BOD) and total organic carbon (TOC) concentrations in the effluent to the satisfaction of the Executive Officer, compliance with the BOD limits contained in this Order may be determined based on analyses of the TOC of the effluent.
- i. In the event of any change in control or ownership of land or waste discharge facility presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be forwarded to the Regional Water Board.
- j. The treatment facilities shall be designed, constructed, operated, and maintained to prevent inundation or washout due to floods with a 100-year return frequency.

B. Monitoring and Reporting Program Requirements

The Discharger shall comply with the Monitoring and Reporting Program, and future revisions thereto, in Attachment E of this Order. This monitoring and reporting program may be modified by the Executive Officer at any time during the term of this Order, and may include an increase in the number of parameters to be monitored, the frequency of the monitoring or the number and size of samples to be collected. Any increase in the number of parameters to be monitored, the frequency of the monitoring or the number and size of samples to be collected may be reduced back to the levels specified in the original monitoring and reporting program at the discretion of the Executive Officer.

C. Special Provisions

1. Reopener Provisions

- a. This Order may be reopened to address any changes in State or federal plans, policies or regulations that would affect the quality requirements for the discharges.

- b. This Order may be reopened to include effluent limitations for pollutants determined to be present in the discharge in concentrations that pose a reasonable potential to cause or contribute to violations of water quality objectives.
- c. This Order may be reopened if the Regional Water Board or the discharger develops different site-specific total-to-dissolved ratios for copper or any other constituent, which are acceptable to the Regional Water Board's Executive Officer.
- d. This Order may be reopened and modified in accordance with the requirements set forth at 40 CFR 122 and 124, to include the appropriate conditions or limits to address demonstrated effluent toxicity based on newly available information, or to implement any EPA-approved new State water quality standards applicable to effluent toxicity.
- e. This Order may be reopened to incorporate appropriate biosolids requirements if the State Water Resources Control Board and the Regional Water Quality Control Board are given the authority to implement regulations contained in 40 CFR 503.
- f. This Order may be reopened to include an appropriate bioaccumulation based effluent limit for mercury if test results (as required in Attachment E of this Order) show that the concentration levels of methylmercury in the fish tissue are at or above 0.3 milligrams per kilogram.

2. Best Management Practices and Pollution Prevention

- a. Storm water discharges shall not result in noncompliance with the lawful requirements of municipalities, counties, drainage districts, and other local agencies on storm water discharges into storm drain systems or other courses under their jurisdiction.
- b. Stormwater Pollution Prevention Plan - The discharger must update and implement the Storm Water Pollution Prevention Plan for the treatment facility in accordance with Attachment "J" of this Order.
- c. Best Management Practices Plan. The Discharger shall develop, notify the Regional Water Board of completion, and implement within 90 days of the effective date of this Order, a Best Management Practices Plan (BMPP). If necessary, the plan, or any existing plan, shall be updated to address any changes in operation and/or management of the facility. Notification that a plan has been updated shall be submitted to the Regional Water Board within 30 days of revision.

The BMPP shall be consistent with the general guidance contained in the EPA *Guidance Manual for Developing Best Management Practices (BMPs)* (EPA 833-B-93-004). In particular, a risk assessment of each area identified by the Discharger shall be performed to determine the potential for hazardous or toxic waste/material discharge to surface waters.

3. Construction, Operation and Maintenance Specifications

- a. The discharger's wastewater treatment plant shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to Title 23, Division 3, Chapter 14, California Code of Regulations.

- b. The discharger shall provide safeguards to assure that should there be reduction, loss, or failure of electric power, the discharger will comply with the requirements of this Order.
- c. The discharger shall update as necessary, the "Operation and Maintenance Manual (O&M Manual)" which it has developed for the treatment facility to conform to latest plant changes and requirements. The O&M Manual shall be readily available to operating personnel onsite. The O&M Manual shall include the following:
 - (1) Description of the treatment plant table of organization showing the number of employees, duties and qualifications and plant attendance schedules (daily, weekends and holidays, part-time, etc). The description should include documentation that the personnel are knowledgeable and qualified to operate the treatment facility so as to achieve the required level of treatment at all times.
 - (2) Detailed description of safe and effective operation and maintenance of treatment processes, process control instrumentation and equipment.
 - (3) Description of laboratory and quality assurance procedures.
 - (4) Process and equipment inspection and maintenance schedules.
 - (5) Description of safeguards to assure that, should there be reduction, loss, or failure of electric power, the discharger will be able to comply with requirements of this Order.
 - (6) Description of preventive (fail-safe) and contingency (response and cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. These plans shall identify the possible sources (such as loading and storage areas, power outage, waste treatment unit failure, process equipment failure, tank and piping failure) of accidental discharges, untreated or partially treated waste bypass, and polluted drainage.

4. Special Provisions for Municipal Facilities (POTWs Only)

a. Sludge Disposal Requirements

- (1) Collected screenings, sludge, and other solids removed from liquid wastes shall be disposed of in a manner that is consistent with State Water Resources Control Board and Integrated Waste Management Board's joint regulations (Title 27) of the California Code of Regulations and approved by the Water Board's Executive Officer.
- (2) The use and disposal of biosolids shall comply with existing Federal and State laws and regulations, including permitting requirements and technical standards included in 40 CFR 503.
- (3) Any proposed change in biosolids use or disposal practice from a previously approved practice should be reported to the Executive Officer and EPA Regional Administrator at least 90 days in advance of the change.

- (4) The discharger shall take all reasonable steps to minimize or prevent any discharge or biosolids use or disposal that has the potential of adversely affecting human health or the environment.
- b. The Discharger shall submit a monthly report that validates that recycled water used for recharge is an oxidized and filtered wastewater. The report shall include:
 - (1) Description of when, how often and whether coagulation of the wastewater is employed in the treatment process. If coagulation is not used at all times, the users shall:
 - i. Continuously monitor the turbidity of the influent to the filters. Turbidity exceedances of 10 NTU or above at any time, and of 5 NTU for more than 15 minutes, shall be included in the monthly report;
 - ii. Certify that chemical addition for coagulation has been automatically employed when the filter influent turbidity exceeds 5 NTU for more than 15 minutes.
 - (2) Description of the type and rate of filtration employed in the treatment process.

VII. COMPLIANCE DETERMINATION

Compliance with the effluent limitations contained in Section IV of this Order will be determined as specified below:

A. Average Monthly Effluent Limitation (AMEL).

If the average of daily discharges over a calendar month exceeds the AMEL for a given parameter, an alleged violation will be flagged and the Discharger will be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of non-compliance in a 31-day month). The average of daily discharges over the calendar month that exceeds the AMEL for a parameter will be considered out of compliance for that month only. If only a single sample is taken during the calendar month and the analytical result for that sample exceeds the AMEL, the Discharger will be considered out of compliance for that calendar month. For any one calendar month during which no sample (daily discharge) is taken, no compliance determination can be made for that calendar month. (See also paragraph VII.M.2., below)

B. Average Weekly Effluent Limitation (AWEL).

If the average of daily discharges over a calendar week exceeds the AWEL for a given parameter, an alleged violation will be flagged and the Discharger will be considered out of compliance for each day of that week for that parameter, resulting in 7 days of non-compliance. The average of daily discharges over the calendar week that exceeds the AWEL for a parameter will be considered out of compliance for that week only. If only a single sample is taken during the calendar week and the analytical result for that sample exceeds the AWEL, the Discharger will be considered out of compliance for that calendar week. For any one calendar week during which no sample (daily discharge) is taken, no compliance determination can be made for that calendar week.

C. Maximum Daily Effluent Limitation (MDEL).

If a daily discharge exceeds the MDEL for a given parameter, an alleged violation will be flagged and the Discharger will be considered out of compliance for that parameter for that 1 day only within the reporting period. For any 1 day during which no sample is taken, no compliance determination can be made for that day.

D. Instantaneous Minimum Effluent Limitation.

If the analytical result of a single grab sample is lower than the instantaneous minimum effluent limitation for a parameter, a violation will be flagged and the Discharger will be considered out of compliance for that parameter for that single sample. Non-compliance for each sample will be considered separately (e.g., the results of two grab samples taken within a calendar day that both are lower than the instantaneous minimum effluent limitation would result in two instances of non-compliance with the instantaneous minimum effluent limitation).

E. Instantaneous Maximum Effluent Limitation.

If the analytical result of a single grab sample is higher than the instantaneous maximum effluent limitation for a parameter, a violation will be flagged and the Discharger will be considered out of compliance for that parameter for that single sample. Non-compliance for each sample will be considered separately (e.g., the results of two grab samples taken within a calendar day that both exceed the instantaneous maximum effluent limitation would result in two instances of non-compliance with the instantaneous maximum effluent limitation).

F. Compliance with the 12-month average limit under Discharge Specification IV.A.1.c. and IV.A.1.d. shall be determined by the arithmetic mean of the last twelve monthly averages.

G. Compliance determinations for total chlorine residual shall be based on 99% compliance. To determine 99% compliance with the effluent limitation specified in Discharge Specification IV.A.1.a. for total chlorine residual, the following conditions shall be satisfied.

1. The total time during which the total chlorine residual values are above 0.1 mg/l (instantaneous maximum value) shall not exceed 7 hours and 26 minutes in any calendar month;
2. No individual excursion from 0.1 mg/l value shall exceed 5 minutes; and
3. No individual excursion shall exceed 5.0 mg/l.

H. The Discharger shall be considered in compliance with Discharge Specifications IV.A.1.e.(1) if the following conditions are met. If the discharger is using a properly operating backup turbidimeter, the reading of the backup turbidimeter shall be considered in determining whether there has been an actual noncompliance:

1. There are no excursions above the limits specified in Discharge Specifications IV.A.1.e.(1)(a) and (b);
2. Exceedances of the "10 NTU at any time" turbidity requirement do not exceed a duration of one minute.
3. The apparent exceedance was caused by interference with, or malfunction of, the monitoring instrument.

- I. Compliance with the weekly average total coliform limit expressed in Discharge Specification A.1.e.(2) shall be based on a running median of the test results from the previous 7 days. To comply with the weekly average limit, the 7-day median MPN must not exceed 2.2 per 100 milliliters on any day during the week. However, only one violation is recorded for each calendar week, even if the 7-day median MPN value is greater than 2.2 for more than one day in the week.
- J. Pursuant to 40 CFR 401.17, the discharger shall be in compliance with the pH limitation specified in Discharge Specification IV.A.1.a., above, provided that both of the following conditions are satisfied:
 - 1. The total time during which the pH values are outside the required range of 6.5-8.5 pH values shall not exceed 7 hours and 26 minutes in any calendar month; and
 - 2. No individual excursion from the range of pH values shall exceed 60 minutes.
- K. Compliance determinations shall be based on available analyses for the time interval associated with the effluent limitation. Where only one sample analysis is available in a specified time interval (e.g., monthly or weekly average), that sample shall serve to characterize the discharge for the entire interval. If quarterly sample results show noncompliance with the average monthly limit and that sample result is used for compliance determinations for each month of the quarter, then three separate violations of the average monthly limit shall be deemed to have occurred.
- L. Compliance with a single effluent limitation which applies to a group of chemicals (e.g., PCBs), based on a single sample shall be determined by considering the concentrations of individual members of the group to be zero if the analytical response for the individual chemical falls below the method detection limit (MDL or PQL) for that chemical.
- M. For priority pollutants, the discharger shall be deemed out of compliance with an effluent limitation if the concentration of the priority pollutant in the monitoring sample is greater than the effluent limitation.
 - 1. Compliance determination shall be based on the minimum level (ML)⁴ specified in Attachment "G" of this Order, unless an alternative minimum level is approved by the Regional Water Board's Executive Officer. When there is more than one ML value for a given substance, the discharger shall select the ML value that is below the calculated effluent limitation, and use its associated analytical method, listed in Attachment "G" of this Order. If no ML value is below the effluent limitation, then the Regional Water Board will select the lowest ML value and its associated analytical method.

⁴ Minimum level is the concentration at which the entire analytical system must give a recognizable signal and acceptable point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.

2. When determining compliance with an average monthly limit and more than one sample result is available in a month, the discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of detected but not quantified (DNQ) or not detected (ND). In those cases, the discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:
 - a. The data set shall be ranked from low to high, reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
 - b. The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ. If a sample result, or the arithmetic mean or median of multiple sample results, is below the reported ML, and there is evidence that the priority pollutant is present in the effluent above an effluent limitation and the discharger conducts a pollutant minimization program (PMP)⁵, the discharger shall not be deemed out of compliance.
- N. For non-priority pollutants, the discharge shall be considered to be in compliance with an effluent limitation that is less than or equal to the PQL specified in Attachment "I" of this Order if the arithmetic mean of all test results for the monitoring period is less than the constituent effluent limitation. Analytical results that are less than the specified PQL shall be assigned a value of zero.

⁵ *The goal of the PMP shall be to reduce all potential sources of a priority pollutant(s) through pollutant minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the water quality-based effluent limitation.*

ATTACHMENT A – DEFINITIONS

Average Monthly Effluent Limitation (AMEL): the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Effluent Limitation (AWEL): the highest allowable average of daily discharges over a calendar week (Sunday through Saturday), calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Daily Discharge: Daily Discharge is defined as either: (1) the total mass of the constituent discharged over the calendar day (12:00 am through 11:59 pm) or any 24-hour period that reasonably represents a calendar day for purposes of sampling (as specified in the permit), for a constituent with limitations expressed in units of mass or; (2) the unweighted arithmetic mean measurement of the constituent over the day for a constituent with limitations expressed in other units of measurement (e.g., concentration).

The daily discharge may be determined by the analytical results of a composite sample taken over the course of one day (a calendar day or other 24-hour period defined as a day) or by the arithmetic mean of analytical results from one or more grab samples taken over the course of the day.

For composite sampling, if 1 day is defined as a 24-hour period other than a calendar day, the analytical result for the 24-hour period will be considered as the result for the calendar day in which the 24-hour period ends.

Instantaneous Maximum Effluent Limitation: the highest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous maximum limitation).

Instantaneous Minimum Effluent Limitation: the lowest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous minimum limitation).

Maximum Daily Effluent Limitation (MDEL): the highest allowable daily discharge of a pollutant.

Coefficient of Variation (CV): is a measure of the data variability and is calculated as the estimated standard deviation divided by the arithmetic mean of the observed values.

LTAs: Long-Term Averages.

MEC: Maximum pollutant concentration for the effluent.

ECA: Effluent concentration allowance.

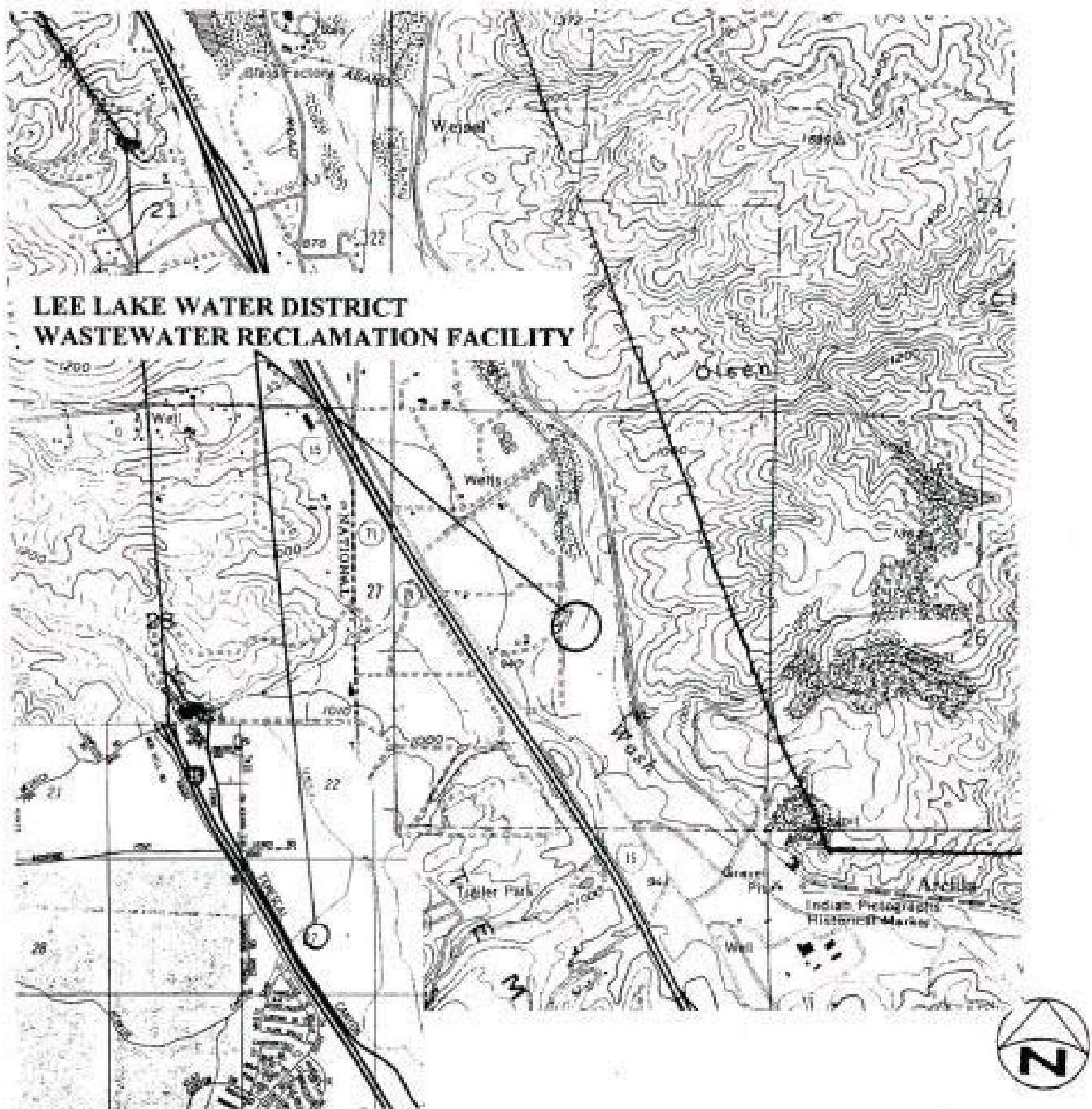
CMC: Criteria maximum concentration.

CCC: Criteria chronic concentration.

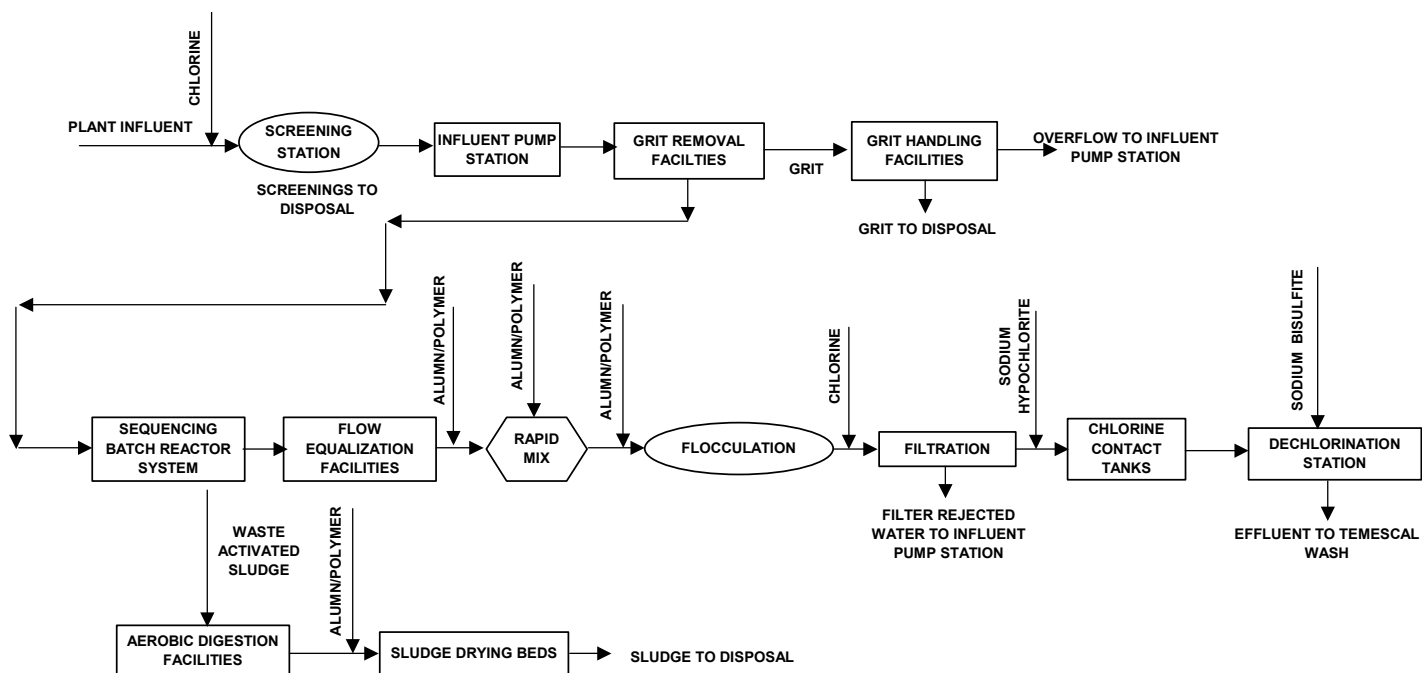
A **"grab" sample** is defined as any individual sample collected in less than 15 minutes.

A **composite sample** is defined as a combination of no fewer than eight individual grab samples obtained over the specified sampling period. The volume of each individual grab sample shall be proportional to the discharge flow rate at the time of sampling. The compositing period shall equal the specific sampling period, or 24 hours, if no period is specified.

ATTACHMENT B – VICINITY MAP



ATTACHMENT C – FLOW SCHEMATIC



ATTACHMENT D – FEDERAL STANDARD PROVISIONS

I. STANDARD PROVISIONS – PERMIT COMPLIANCE

A. Duty to Comply

1. The Discharger must comply with all of the conditions of this Order. Any noncompliance constitutes a violation of the Clean Water Act (CWA) and the California Water Code (CWC) and is grounds for enforcement action, for permit termination, revocation and reissuance, or denial of a permit renewal application [40 CFR §122.41(a)].
2. The Discharger shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions, even if this Order has not been modified to incorporate the requirement [40 CFR §122.41(a)(1)].

B. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a Discharger in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Order [40 CFR §122.41(c)].

C. Duty to Mitigate

The Discharger shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this Order that has a reasonable likelihood of adversely affecting human health or the environment [40 CFR §122.41(d)].

D. Proper Operation and Maintenance

The Discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Discharger to achieve compliance with the conditions of this Order. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by a Discharger only when necessary to achieve compliance with the conditions of this Order [40 CFR §122.41(e)].

E. Property Rights

1. This Order does not convey any property rights of any sort or any exclusive privileges [40 CFR §122.41(g)].
2. The issuance of this Order does not authorize any injury to persons or property or invasion of other private rights, or any infringement of State or local law or regulations [40 CFR §122.5(c)].

F. Inspection and Entry

The Discharger shall allow the Regional Water Quality Control Board (RWQCB), State Water Resources Control Board (SWRCB), United States Environmental Protection Agency (USEPA), and/or their authorized representatives (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents, as may be required by law, to [40 CFR §122.41(i)] [CWC 13383(c)]:

1. Enter upon the Discharger's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order [40 CFR §122.41(i)(1)];
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order [40 CFR §122.41(i)(2)];
3. Inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order [40 CFR §122.41(i)(3)];
4. Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the CWC, any substances or parameters at any location [40 CFR §122.41(i)(4)].

G. Bypass

1. Definitions
 - a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility [40 CFR §122.41(m)(1)(i)].
 - b. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities, which causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production [40 CFR §122.41(m)(1)(ii)].
2. Bypass not exceeding limitations – The Discharger may allow any bypass to occur which does not cause exceedances of effluent limitations, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions listed in Standard Provisions – Permit Compliance I.G.3 and I.G.5 below [40 CFR §122.41(m)(2)].
3. Prohibition of bypass – Bypass is prohibited, and the Regional Water Board may take enforcement action against a Discharger for bypass, unless [40 CFR §122.41(m)(4)(i)]:
 - a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage [40 CFR §122.41(m)(4)(A)];

- b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance [40 CFR §122.41(m)(4)(B)]; and
 - c. The Discharger submitted notice to the Regional Water Board as required under Standard Provision – Permit Compliance I.G.5 below [40 CFR §122.41(m)(4)(C)].
4. The Regional Water Board may approve an anticipated bypass, after considering its adverse effects, if the Regional Water Board determines that it will meet the three conditions listed in Standard Provisions – Permit Compliance I.G.3 above [40 CFR §122.41(m)(4)(ii)].
5. Notice
- a. Anticipated bypass. If the Discharger knows in advance of the need for a bypass, it shall submit a notice, if possible at least 10 days before the date of the bypass [40 CFR §122.41(m)(3)(i)].
 - b. Unanticipated bypass. The Discharger shall submit notice of an unanticipated bypass as required in Standard Provisions - Reporting V.E below [40 CFR §122.41(m)(3)(ii)].

H. Upset

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation [40 CFR §122.41(n)(1)].

- 1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph H.2 of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review [40 CFR §122.41(n)(2)].
- 2. Conditions necessary for a demonstration of upset. A Discharger who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that [40 CFR §122.41(n)(3)]:
 - a. An upset occurred and that the Discharger can identify the cause(s) of the upset [40 CFR §122.41(n)(3)(i)];
 - b. The permitted facility was, at the time, being properly operated [40 CFR §122.41(n)(3)(i)];

- c. The Discharger submitted notice of the upset as required in Standard Provisions – Reporting V.E.2.b [40 CFR §122.41(n)(3)(iii)]; and
 - d. The Discharger complied with any remedial measures required under Standard Provisions – Permit Compliance I.C above [40 CFR §122.41(n)(3)(iv)].
3. Burden of proof. In any enforcement proceeding, the Discharger seeking to establish the occurrence of an upset has the burden of proof [40 CFR §122.41(n)(4)].

II. STANDARD PROVISIONS – PERMIT ACTION

A. General

This Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Discharger for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Order condition [40 CFR §122.41(f)].

B. Duty to Reapply

If the Discharger wishes to continue an activity regulated by this Order after the expiration date of this Order, the Discharger must apply for and obtain a new permit [40 CFR §122.41(b)].

C. Transfers

This Order is not transferable to any person except after notice to the Regional Water Board. The Regional Water Board may require modification or revocation and reissuance of the Order to change the name of the Discharger and incorporate such other requirements as may be necessary under the CWA and the CWC [40 CFR §122.41(l)(3)] [40 CFR §122.61].

III. STANDARD PROVISIONS – MONITORING

- A. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity [40 CFR §122.41(j)(1)].
- B. Monitoring results must be conducted according to test procedures under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503 unless other test procedures have been specified in this Order [40 CFR §122.41(j)(4)] [40 CFR §122.44(i)(1)(iv)].

IV. STANDARD PROVISIONS – RECORDS

- A.** Except for records of monitoring information required by this Order related to the Discharger's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), the Discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Regional Water Board Executive Officer at any time [40 CFR §122.41(j)(2)].

B. Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements [40 CFR §122.41(j)(3)(i)];
2. The individual(s) who performed the sampling or measurements [40 CFR §122.41(j)(3)(ii)];
3. The date(s) analyses were performed [40 CFR §122.41(j)(3)(iii)];
4. The individual(s) who performed the analyses [40 CFR §122.41(j)(3)(iv)];
5. The analytical techniques or methods used [40 CFR §122.41(j)(3)(v)]; and
6. The results of such analyses [40 CFR §122.41(j)(3)(vi)].

C. Claims of confidentiality for the following information will be denied [40 CFR §122.7(b)]:

1. The name and address of any permit applicant or Discharger [40 CFR §122.7(b)(1)]; and
2. Permit applications and attachments, permits and effluent data [40 CFR §122.7(b)(2)].

V. STANDARD PROVISIONS – REPORTING

A. Duty to Provide Information

The Discharger shall furnish to the Regional Water Board, SWRCB, or USEPA within a reasonable time, any information which the Regional Water Board, SWRCB, or USEPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order or to determine compliance with this Order. Upon request, the Discharger shall also furnish to the Regional Water Board, SWRCB, or USEPA copies of records required to be kept by this Order [40 CFR §122.41(h)] [CWC 13267].

B. Signatory and Certification Requirements

1. All applications, reports, or information submitted to the Regional Water Board, SWRCB, and/or USEPA shall be signed and certified in accordance with paragraph (2.) and (3.) of this provision [40 CFR §122.41(k)].

2. All permit applications shall be signed as follows:

- a. For a corporation: By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures [40 CFR §122.22(a)(1)];
- b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively [40 CFR §122.22(a)(2)]; or
- c. For a municipality, State, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this provision, a principal executive officer of a federal agency includes: (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of USEPA) [40 CFR §122.22(a)(3)].

3. All reports required by this Order and other information requested by the Regional Water Board, SWRCB, or USEPA shall be signed by a person described in paragraph (b) of this provision, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- a. The authorization is made in writing by a person described in paragraph (2.) of this provision [40 CFR §122.22(b)(1)];
- b. The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company (a duly authorized representative may thus be either a named individual or any individual occupying a named position) [40 CFR §122.22(b)(2)]; and
- c. The written authorization is submitted to the Regional Water Board, SWRCB, or USEPA [40 CFR §122.22(b)(3)].

4. If an authorization under paragraph (3.) of this provision is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph (3.) of this provision must be submitted to the Regional Water Board, SWRCB or USEPA prior to or together with any reports, information, or applications, to be signed by an authorized representative [40 CFR §122.22(c)].
5. Any person signing a document under paragraph (2.) or (3.) of this provision shall make the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations” [40 CFR §122.22(d)].

C. Monitoring Reports

1. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program in this Order [40 CFR §122.41(l)(4)].
2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Regional Water Board or SWRCB for reporting results of monitoring of sludge use or disposal practices [40 CFR §122.41(l)(4)(i)].
3. If the Discharger monitors any pollutant more frequently than required by this Order using test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, or as specified in this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Regional Water Board [40 CFR §122.41(l)(4)(ii)].
4. Calculations for all limitations, which require averaging of measurements, shall utilize an arithmetic mean unless otherwise specified in this Order [40 CFR §122.41(l)(4)(iii)].

D. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Order, shall be submitted no later than 14 days following each schedule date [40 CFR §122.41(l)(5)].

E. Twenty-Four Hour Reporting

1. The Discharger shall report any noncompliance that may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Discharger becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the Discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance [40 CFR §122.41(l)(6)(i)].
2. The following shall be included as information that must be reported within 24 hours under this paragraph [40 CFR §122.41(l)(6)(ii)]:
 - a. Any unanticipated bypass that exceeds any effluent limitation in this Order [40 CFR §122.41(l)(6)(ii)(A)].
 - b. Any upset that exceeds any effluent limitation in this Order [40 CFR §122.41(l)(6)(ii)(B)].
 - c. Violation of a maximum daily discharge limitation for any of the pollutants listed in this Order to be reported within 24 hours [40 CFR §122.41(l)(6)(ii)(C)].
3. The Regional Water Board may waive the above-required written report under this provision on a case-by-case basis if an oral report has been received within 24 hours [40 CFR §122.41(l)(6)(iii)].

F. Planned Changes

The Discharger shall give notice to the Regional Water Board as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required under this provision only when [40 CFR §122.41(l)(1)]:

1. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR §122.29(b) [40 CFR §122.41(l)(1)(i)]; or
2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in this Order nor to notification requirements under 40 CFR Part 122.42(a)(1) (see Additional Provisions—Notification Levels VII.A.1) [40 CFR §122.41(l)(1)(ii)].
3. The alteration or addition results in a significant change in the Discharger's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan [40 CFR §122.41(l)(1)(iii)].

G. Anticipated Noncompliance

The Discharger shall give advance notice to the Regional Water Board or SWRCB of any planned changes in the permitted facility or activity that may result in noncompliance with General Order requirements [40 CFR §122.41(l)(2)].

H. Other Noncompliance

The Discharger shall report all instances of noncompliance not reported under Standard Provisions – Reporting E.3, E.4, and E.5 at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting V.E [40 CFR §122.41(l)(7)].

I. Other Information

When the Discharger becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Regional Water Board, SWRCB, or USEPA, the Discharger shall promptly submit such facts or information [40 CFR §122.41(l)(8)].

VI. STANDARD PROVISIONS – ENFORCEMENT

- A. The CWA provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The CWA provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the Clean Water Act, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions [40 CFR §122.41(a)(2)] [CWC 13385 and 13387].

- B.** Any person may be assessed an administrative penalty by the Regional Water Board for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000 [40 CFR §122.41(a)(3)].
- C.** The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both [40 CFR §122.41(j)(5)].
- D.** The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this Order, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both [40 CFR §122.41(k)(2)].

VII. ADDITIONAL PROVISIONS – NOTIFICATION LEVELS

A. Non-Municipal Facilities

Existing manufacturing, commercial, mining, and silvicultural Dischargers shall notify the Regional Water Board as soon as they know or have reason to believe [40 CFR §122.42(a)]:

1. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" [40 CFR §122.42(a)(1)]:

 - a. 100 micrograms per liter (µg/L) [40 CFR §122.42(a)(1)(i)];
 - b. 200 µg/L for acrolein and acrylonitrile; 500 µg/L for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol; and 1 milligram per liter (mg/L) for antimony [40 CFR §122.42(a)(1)(ii)];
 - c. Five (5) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge [40 CFR §122.42(a)(1)(iii)]; or
 - d. The level established by the Regional Water Board in accordance with 40 CFR §122.44(f) [40 CFR §122.42(a)(1)(iv)].

2. That any activity has occurred or will occur that would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" [40 CFR §122.42(a)(2)]:
 - a. 500 micrograms per liter (µg/L) [40 CFR §122.42(a)(2)(i)];
 - b. 1 milligram per liter (mg/L) for antimony [40 CFR §122.42(a)(2)(ii)];
 - c. Ten (10) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge [40 CFR §122.42(a)(2)(iii)]; or
 - d. The level established by the Regional Water Board in accordance with 40 CFR §122.44(f) [40 CFR §122.42(a)(2)(iv)].

B. Publicly-Owned Treatment Works (POTWs)

All POTWs shall provide adequate notice to the Regional Water Board of the following [40 CFR §122.42(b)]:

1. Any new introduction of pollutants into the POTW from an indirect Discharger that would be subject to Sections 301 or 306 of the CWA if it were directly discharging those pollutants [40 CFR §122.42(b)(1)]; and
2. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of adoption of the Order [40 CFR §122.42(b)(2)].

Adequate notice shall include information on the quality and quantity of effluent introduced into the POTW as well as any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW [40 CFR §122.42(b)(3)].

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ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP)

The Code of Federal Regulations (CFR) at 40 CFR §122.48 requires that all NPDES permits specify monitoring and reporting requirements. CWC sections 13267 and 13383 also authorize the Regional Water Quality Control Board (RWQCB) to require technical and monitoring reports. This MRP establishes monitoring and reporting requirements that implement the federal and California regulations.

I. GENERAL MONITORING PROVISIONS

A. General Monitoring Provisions

1. All sampling and sample preservation shall be in accordance with the current edition of *“Standard Methods for the Examination of Water and Wastewater”* (American Public Health Association).
2. All laboratory analyses shall be performed in accordance with test procedures under 40 CFR 136 (revised as of May 14, 1999) "Guidelines Establishing Test Procedures for the Analysis of Pollutants," promulgated by the United States Environmental Protection Agency (EPA), unless otherwise specified in this MRP. For priority pollutants the methods must meet the lowest minimum levels (MLs) specified in Attachment E of this Order, where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board. In addition, the Regional Board and/or EPA, at their discretion, may specify test methods that are more sensitive than those specified in 40 CFR 136. Unless otherwise specified herein, organic pollutants shall be analyzed using EPA method 8260, as appropriate.
3. Chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the California Department of Health Services or EPA or at laboratories approved by the Regional Water Board's Executive Officer.
4. Whenever the Discharger monitors any pollutant more frequently than is required by this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharge monitoring report specified by the Executive Officer.
5. In conformance with federal regulations 40 CFR 122.45(c), analyses to determine compliance with the effluent limitations for metals shall be conducted using the total recoverable method. For Chromium (VI), the dissolved method in conformance with 40 CFR 136 may be used to measure compliance with the Chromium (VI) limitation.
6. For effluent and ambient receiving water monitoring:

- a. The discharger shall require its testing laboratory to calibrate the analytical system down to the minimum level (ML)⁶ specified in Attachment “G” for priority pollutants with effluent limitations in this Order, unless an alternative minimum level is approved by the Regional Water Board’s Executive Officer. When there is more than one ML value for a given substance, the discharger shall use the ML values, and their associated analytical methods, listed in Attachment “A” that are below the calculated effluent limitation. The discharger may select any one of those cited analytical methods for compliance determination. If no ML value is below the effluent limitation, then the lowest ML value, and its associated analytical method, listed in Attachment “G” shall be used. Any internal quality control data associated with the sample must be reported when requested by the Executive Officer. The Regional Water Board will reject the quantified laboratory data if quality control data is unavailable or unacceptable.
- b. The discharger shall report the results of analytical determinations for the presence of chemical constituents in a sample using the following reporting protocols:
 - 1) Sample results greater than or equal to the reported ML shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).
 - 2) Sample results less than the reported ML, but greater than or equal to the laboratory’s current Method Detection Limit (MDL)⁷, shall be reported as “Detected, but Not Quantified,” or “DNQ.” The estimated chemical concentration of the sample shall also be reported.
 - 3) Sample results not detected above the laboratory’s MDL shall be reported as “not detected” or “ND.”
- c. The discharger shall submit to the Regional Water Board reports necessary to determine compliance with effluent limitations for priority pollutants in this Order and shall follow the chemical nomenclature and sequential order of constituents shown in Attachment “H” – Priority Pollutant Lists. The discharger shall report with each sample result:
 - 1) The ML or PQL⁸ listed in Attachments “G” and “I”, achieved by the testing laboratory; and
 - 2) The laboratory’s current MDL, as determined by the procedure found in 40 CFR 136 (revised as of May 14, 1999).

⁶ Minimum level is the concentration at which the entire analytical system must give a recognizable signal and acceptable point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.

⁷ MDL is the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analytical concentration is greater than zero, as defined in 40 CFR 136, Appendix B, revised as of May 14, 1999.

⁸ PQL is the lowest concentration of a substance that can be determined within ± 20 percent of the true concentration by 75 percent of the analytical laboratories tested in a performance evaluation study. Alternatively, if performance data are not available, the PQL is the method detection limit (MDL) $\times 5$ for carcinogens and MDL $\times 10$ for noncarcinogens

- d. For receiving water monitoring and for those priority pollutants without effluent limitations, the discharger shall require its testing laboratory to quantify constituent concentrations to the lowest achievable MDL as determined by the procedure found in 40 CFR 136 (revised as of May 14, 1999). In situations where the most stringent applicable receiving water objective (freshwater or human health (consumption of organisms only), as specified for that pollutant in 40 CFR 131.389) is below the minimum level value specified in Attachment "G" and the discharger cannot achieve an MDL value for that pollutant below the ML value, the discharger shall submit justification why a lower MDL value cannot be achieved. Justification shall be submitted together with monthly monitoring reports.
7. For non-priority pollutants monitoring, all analytical data shall be reported with identification of practical quantitation levels and with method detection limits, as determined by the procedure found in 40 CFR 136 (revised as of May 14, 1999).
8. The discharger shall have and implement an acceptable written quality assurance (QA) plan for laboratory analyses. Duplicate chemical analyses must be conducted on a minimum of ten percent (10%) of the samples, or at least one sample per month, whichever is greater. A similar frequency shall be maintained for analyzing spiked samples. When requested by the Regional Water Board or EPA, the discharger will participate in the NPDES discharge monitoring report QA performance study.
9. For every item of monitoring data where the requirements are not met, the monitoring report shall include a statement discussing the reasons for noncompliance, the actions undertaken or proposed that will bring the discharge into full compliance with requirements at the earliest time, and an estimate of the date when the discharger will be in compliance. The discharger shall notify the Regional Water Board by letter when compliance with the time schedule has been achieved.
10. The discharger shall assure that records of all monitoring information are maintained and accessible for a period of at least five years from the date of the sample, report, or application. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or by the request of the Regional Water Board at any time. Records of monitoring information shall include:
 - a. The information listed in Attachment D- IV Standard Provisions – Records, subparagraph B. of this Order;
 - b. The laboratory which performed the analyses;
 - c. The modification(s) to analytical techniques or methods used;
 - d. All sampling and analytical results, including
 - 1) Units of measurement used;
 - 2) Minimum reporting limit for the analysis (minimum level, practical quantitation level (PQL));
 - 3) Results less than the reporting limit but above the method detection limit (MDL);

⁹ See *Federal Register*/ Vol. 65, No. 97 / Thursday, May 18, 2000 / Rules and Regulations.

- 4) Data qualifiers and a description of the qualifiers;
 - 5) Quality control test results (and a written copy of the laboratory quality assurance plan);
 - 6) Dilution factors, if used; and
 - 7) Sample matrix type; and
 - e. All monitoring equipment calibration and maintenance records;
 - f. All original strip charts from continuous monitoring devices;
 - g. All data used to complete the application for this Order; and,
 - h. Copies of all reports required by this Order.
 - i. Electronic data and information generated by the Supervisory Control and Data Acquisition (SCADA) System.
11. The flow measurement system shall be calibrated at least once per year or more frequently, to ensure continued accuracy.
12. All monitoring instruments and devices used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. In the event that continuous monitoring equipment is out of service for greater than a 24-hour period, the discharger shall obtain a representative grab sample each day the equipment is out of service. The discharger shall correct the cause(s) of failure of the continuous monitoring equipment as soon as practicable. In its monitoring report, the discharger shall specify the period(s) during which the equipment was out of service and if the problem has not been corrected, shall identify the steps which the discharger is taking or proposes to take to bring the equipment back into service and the schedule for these actions.

II. MONITORING LOCATIONS

The Discharger shall establish the following monitoring locations to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements in this Order:

| Discharge Point Name | Monitoring Location Name | Monitoring Location Description |
|----------------------|--------------------------|--|
| LLWRF Influent | M-INF | Grit Chamber |
| LLWRF Effluent | M-EFF | Latitude 33°49'42"N and longitude 117°30'45"W, to Temescal Creek |
| LLWRF- Potable | M-POT | Treatment facility's administrative office |

III. INFLUENT MONITORING REQUIREMENTS

A. Monitoring Location

1. The Discharger shall monitor influent at M-INF as follows:

| Parameter | Units | Sample Type | Minimum Sampling & Testing Frequency | Required Analytical Test Method |
|--------------------------|----------|--------------------|--------------------------------------|---------------------------------------|
| Flow | mgd | Recorder/Totalizer | Continuous | --- |
| PH | pH units | Grab | " | See Section I.A.2., above of this MRP |
| BOD | mg/l | Composite | Weekly | " |
| Suspended Solids | " | " | " | " |
| Copper | µg/l | " | Quarterly | " |
| Mercury | " | " | " | " |
| Selenium | " | " | " | " |
| Chromium (VI) | " | " | " | " |
| Silver | " | " | " | " |
| Ammonia-Nitrogen | " | Composite | Semi-Annual | " |
| Total Inorganic Nitrogen | " | " | " | " |
| Total Dissolved Solids | " | " | " | " |
| Boron | " | " | " | " |
| Chloride | " | " | " | " |
| Fluoride | mg/l | Composite | Semi-Annual | See Section I.A.2., above of this MRP |
| Sulfate | " | " | " | " |
| Total Hardness | " | " | " | " |
| Arsenic | " | " | Annually | " |
| Cadmium | " | " | " | " |
| Lead | " | " | " | " |
| Nickel | " | " | " | " |
| Zinc | " | " | " | " |
| Cyanide | " | Grab | " | " |

IV. EFFLUENT MONITORING REQUIREMENTS

A. Monitoring Location

1. The Discharger shall sample and monitor M-EFF as follows:

| Parameter | Units | Sample Type | Minimum Sampling & Testing Frequency | Required Analytical Test Method |
|-----------|----------|--------------------|--------------------------------------|---------------------------------------|
| Flow | mgd | Recorder/Totalizer | Continuous | --- |
| PH | pH units | Grab | " | See Section I.A.2., above of this MRP |

| Parameter | Units | Sample Type | Minimum Sampling & Testing Frequency | Required Analytical Test Method |
|--|------------------------------|--|--------------------------------------|---------------------------------------|
| Turbidity Four-hour Results Daily Average Daily 95th Percentile | NTU ¹⁰ | Grab until the continuous monitoring device is installed & operational | Continuous | See Section I.A.2., above of this MRP |
| Chlorine (Combined Residual) | mg/l | Recorder/Totalizer | " | " |
| Coliform Organisms | MPN per 100 ml ¹¹ | Grab | Daily ¹² | " |
| Suspended Solids | mg/l | Composite | Weekly | " |
| BOD | " | " | " | " |
| Total Inorganic Nitrogen | " | " | " | " |
| Ammonia-Nitrogen | " | " | " | " |
| Toxicity Monitoring | ---- | (See Section V, Below) | (See Section V, Below) | " |
| Total Dissolved Solids | mg/l | Composite | Monthly | " |
| Chloride | " | " | " | " |
| Sodium | " | " | " | " |
| Sulfate | " | " | " | " |
| Total Hardness | " | " | " | " |
| Copper | µg/l | " | " | " |
| Chromium (VI) | " | " | " | " |
| Mercury | " | " | " | " |
| Selenium | µg/l | Composite | Monthly | See Section I.A.2., above of this MRP |
| Silver | " | " | " | " |
| Cyanide (Free) | " | Grab | Semi-Annually (See A.2., below) | " |
| Arsenic | " | Composite | " | " |
| Barium | " | " | " | " |
| Cobalt | " | " | " | " |
| Iron | " | " | " | " |
| Zinc | " | " | " | " |
| Lead | " | " | " | " |
| Cadmium | " | " | " | " |
| | | | | |
| Manganese | µg/l | Composite | Semi-annual | " |
| | | | | |
| | | | | |
| Phenolic Compounds | µg/l | Grab | Annually | " |
| Remaining volatile organic portion of EPA Priority Pollutants (See Attachment "H") | " | " | Annually (See A.3., below) | " |

¹⁰ NTU = Nephelometric Turbidity Units

¹¹ MPN/100mL = Most Probable Number per 100 milliliters

¹² Weekdays excluding holidays

| Parameter | Units | Sample Type | Minimum Sampling & Testing Frequency | Required Analytical Test Method |
|---|-------|-------------|--------------------------------------|---------------------------------|
| Remaining EPA Priority Pollutants (See Attachment "H") | " | " | Annually (See A.3., below) | " |

Notes:

- (1) Samples for total coliform bacteria shall be collected at least daily. Samples shall be taken from the disinfected effluent.
 - (2) Turbidity analysis shall be continuous, performed by a continuous recording turbidimeter. Compliance with the daily average operating filter effluent turbidity shall be determined by averaging the levels of recorded turbidity taken at a minimum of four-hour intervals over a 24-hour period. The results of the daily average turbidity determinations shall be reported monthly.
2. The monitoring frequency for those priority pollutants that are detected during the required semi-annual monitoring at a concentration greater than fifty percent of the most stringent applicable receiving water objectives (freshwater or human health (consumption of organisms only) as specified for that pollutant¹³ in 40 CFR 131.38¹⁴) shall be accelerated to monthly. To return to the monitoring frequency specified, the discharger shall request and receive approval from the Regional Water Board's Executive Officer or designee. The Discharger shall use the lowest ML specified in Attachment "G" that would be below the most stringent applicable receiving water objectives (freshwater or human health (consumption of organisms only) as specified for that pollutant in 40 CFR 131.38
 3. The monitoring frequency for those priority pollutants that are detected during the required annual monitoring at a concentration greater than fifty percent of the most stringent applicable receiving water objectives (freshwater or human health (consumption of organisms only) as specified for that pollutant¹³ in 40 CFR 131.38¹⁴) shall be accelerated to quarterly for one year. To return to the monitoring frequency specified, the discharger shall request and receive approval from the Regional Water Board's Executive Officer or designee. The Discharger shall use the lowest ML specified in Attachment "G" that would be below the most stringent applicable receiving water objectives (freshwater or human health (consumption of organisms only) as specified for that pollutant in 40 CFR 131.38)

V. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

1. The discharger shall conduct critical life stage chronic toxicity testing in accordance with Method 1002.0 - Survival and Reproduction test for water flea, *Ceriodaphnia dubia* as specified in "Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms", Fourth Edition, Environmental Monitoring Systems Laboratory, U.S. Environmental Protection Agency 2002, Cincinnati, Ohio (October 2002, EPA-821-R-02-013).

¹³ For those priority pollutants without specified criteria values, accelerated monitoring is not required.

¹⁴ See Federal Register/ Vol. 65, No. 97 / Thursday, May 18, 2000 / Rules and Regulations.

2. The discharger shall establish procedures to ensure that the toxicity testing laboratory notifies the discharger of the results of toxicity testing within twenty-four hours of completing such tests.
3. A minimum of one monthly chronic toxicity test shall be conducted on 24-hour composite samples.
4. The discharger shall increase the frequency of chronic toxicity testing to every two weeks whenever any test result exceeds 1.0 TUC. The first test under the accelerated schedule shall be conducted within two weeks of receiving notice of the test which exceeds 1.0 TUC, and every two weeks thereafter. The discharger may resume the regular test schedule when two consecutive chronic toxicity tests result in 1.0 TUC, or when the results of the Initial Investigation Reduction Evaluation conducted by the discharger have adequately addressed the identified toxicity problem.
5. The presence of chronic toxicity shall be estimated as specified in Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. Fourth Edition. EPA-821-R-02-013.
6. Results for both survival and reproduction endpoints shall be reported in TUC, where $TUC = 100/NOEC$ or $100/IC_p$ or EC_p (p is the percent effluent). The no observed effect concentration (NOEC) is the highest concentration of toxicant to which organisms are exposed in a chronic test, that causes no observable adverse effect on the tests organisms (e.g., the highest concentration of toxicant to which the values for the observed responses are not statistically significant different from the controls). The inhibition concentration (IC) is a point estimate of the toxicant concentration that causes a given percent reduction in a non-quantal biological measurement (e.g., reproduction or growth) calculated from a continuous model (the EPA Interpolation Method). The effective concentration (EC) is a point estimate of the toxicant concentration that would cause a given percent reduction in quantal biological measurement (e.g., larval development, survival) calculated from a continuous model (e.g., probit).
7. Additional Testing Requirements.
 - a. A series of at least five dilutions and a control will be tested. The series shall be within 60% to 100% effluent concentration.
 - b. If organisms are not cultured in-house, concurrent testing with reference toxicants shall be conducted. Where organisms are cultured in-house, monthly reference toxicant testing is sufficient. Reference toxicants shall also be conducted using the same test conditions as the effluent toxicity test (e.g., same test duration, etc).
 - c. If either of the reference toxicant test or the effluent tests do not meet all test acceptability criteria as specified in the manual¹⁵, then the discharger must re-sample and re-test within 14 days or as soon as the discharger receives notification of failed tests.
 - d. Control and dilution water should be receiving water or lab water, as appropriate, as described in the manual. If the dilution water used is different from the culture water, a second control, using culture water shall also be used.

¹⁵ Refers to USEPA Manual "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. Fourth Edition. EPA-821-R-02-013.

8. Quality Assurance/Control:

- a. A quality assurance/quality control (QA/QC) program shall be instituted to verify the results of the effluent toxicity monitoring program. The QA/QC program shall include but shall not be limited to the following: (1) Selection of an independent testing laboratory; (2) Approval by the Regional Water Board's Executive Officer or Executive Officer's designee of the independent testing laboratory; (3) Once during the year, the discharger shall split samples with the independent laboratory for conducting chronic toxicity testing; (4) Results from the independent laboratory shall be submitted to the Regional Water Board and the discharger for evaluation; (5) The discharger shall review the test acceptability criteria in accordance with the EPA test protocols, EPA-821-R-02-013.
 - b. Results from the independent laboratory of the annual QA/QC split samples are to be used for Quality Assurance/Quality Control (QA/QC) purposes only and not for purposes of determining compliance with other requirements of this Order.
9. The use of alternative methods for measuring chronic toxicity may be considered by the Executive Officer on a case-by-case basis. The use of a different test species, in lieu of conducting the required test species may be considered/approved by the Executive Officer on a case-by case basis upon submittal of the documentation supporting discharger's determination that a different species is more sensitive and appropriate.
10. Reporting: Results of all toxicity testing conducted within the month following the reporting period shall be submitted monthly in accordance with "Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms", Fourth Edition, Environmental Monitoring Systems Laboratory, U.S. Environmental Protection Agency 2002, Cincinnati, Ohio (October 2002, EPA-821-R-02-013). The report shall include a determination of the median value of all chronic toxicity testing results conducted during the two previous months.
11. Whenever an Initial Investigation Reduction Evaluation is conducted, the results of the evaluation shall be submitted upon completion. In addition, monthly status reports shall be submitted as part of the discharger's monitoring report for the previous month.

VI. LAND DISCHARGE MONITORING REQUIREMENTS – NOT APPLICABLE

VII. RECLAMATION MONITORING REQUIREMENTS

Whenever recycled water is supplied to a user, the volume of recycled water, the user of recycled water, the locations of those sites including the names of the groundwater management zones underlying the recycled water use sites, type of use (e.g. irrigation, industrial, etc) and the dates at which water is supplied shall be recorded on a permanent log. A summary report of water use by groundwater management zones shall be submitted annually.

I. RECEIVING WATER MONITORING REQUIREMENTS – SURFACE WATER AND GROUNDWATER

A. Surface Water

1. The following receiving water stations shall be monitored for the indicated constituents:

| Station A: Temescal Creek, within 100 feet upstream of the point of discharge. | | | | |
|--|------------------|------|----------------|--|
| Station B: Temescal Creek, within 100 feet downstream of the point of discharge. | | | | |
| Station | Constituent | Unit | Type of Sample | Minimum Frequency of Sampling & Analysis |
| A and B | Dissolved Oxygen | mg/l | Grab | Weekly |
| A and B | Temperature | °C | " | " |
| A check for the presence of any color changes, foam, deposition of material, or odor in the receiving water from the discharge shall be made daily at station B. | | | | |

2. At station A, all the priority pollutants listed in Attachment “H” shall be monitored semi-annually and reported by the last day of the month following the monitoring period.
3. Unless otherwise directed by the Regional Water Board Executive Officer, the discharger shall implement the approved plan for the annual sampling and testing of mercury levels in fish flesh samples collected from the Santa Ana River. The frequency of monitoring and submission of reports shall be as stipulated in the approved plan.

B. Groundwater Monitoring at recycled water use sites

The discharger shall submit within six months of the effective date of this Order a proposal and schedule for conducting an effective groundwater-monitoring program for approval by the Executive Officer of the Regional Water Board. Within one month of approval of the groundwater monitoring program the discharger shall implement the program and shall submit a monthly monitoring report of testing results. Parameters to be monitored shall include total dissolved solids, hardness, sodium, chloride, nitrate-nitrogen, total nitrogen, and sulfate.

II. OTHER MONITORING REQUIREMENTS

A. Biosolids Monitoring:

1. Biosolids monitoring shall be conducted as follows:

| Biosolids Monitoring | Units | Type of Sample | Minimum Frequency of Sampling & Testing |
|----------------------------|-------|---------------------------------|---|
| Priority Pollutants | mg/kg | A composite of six grab samples | Annually |
| Moisture Content (% solid) | mg/kg | Grab | " |

2. The discharger shall maintain a permanent log of solids hauled away from the treatment facilities for use/disposal elsewhere, including the date hauled, the volume or weight (in dry tons), type (screening, grit, raw sludge, biosolids), application (agricultural, composting, etc.), and destination. This information shall be reported annually.

B. Water Supply Monitoring:

1. In January of each year, a sample of each source of the water supplied to the sewer area shall be obtained and analyzed for total dissolved solids concentration expressed in "mg/l".
2. Monthly reports shall be submitted stating the amount (in percentage or acre-feet) supplied to the sewer area from each source of water and the resulting flow-weighted water supply quality for total dissolved solids.

C. Storm Water Monitoring – See Attachment K

X. REPORTING REQUIREMENTS

A. General Monitoring and Reporting Requirements

1. The Discharger shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.
2. The monthly reports for June and December shall include a roster of plant personnel, including job titles, duties, and level of State certification for each individual.

- By January 1 of each year, the discharger shall submit an annual report to the Regional Water Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with the waste discharge requirements. The annual report shall include a summary of the quality assurance (QA) activities for the previous year.

B. Self Monitoring Reports (SMRs)

- At any time during the term of this Order, the State or Regional Water Board may notify the Discharger to electronically submit self-monitoring reports. Until such notification is given, the Discharger shall submit self-monitoring reports in accordance with the requirements described below.
- The Discharger shall submit monthly, semi-annual, and annual Self Monitoring Reports including the results of all required monitoring using USEPA-approved test methods or other test methods specified in this Order. Monthly reports shall be due on the 1st day of the second month following the end of each calendar month; Semi-annual reports shall be due on August 1 and February 1 following each semi-annual period; Annual reports shall be due on February 1 following each calendar year.
- Monitoring periods and reporting for all required monitoring shall be completed according to the following schedule:

| Sampling Frequency | Monitoring Period Begins On... | Monitoring Period | SMR Due Date |
|--------------------|--|---|--|
| Continuous | Permit effective date | All | First day of second calendar month following month of sampling |
| Daily | Permit effective date | (Midnight through 11:59 PM) or any 24-hour period that reasonably represents a calendar day for purposes of sampling. | First day of second calendar month following month of sampling |
| Weekly | Sunday following permit effective date or on permit effective date if on a Sunday | Sunday through Saturday | First day of second calendar month following month of sampling |
| Monthly | First day of calendar month following permit effective date or on permit effective date if that date is first day of the month | 1 st day of calendar month through last day of calendar month | First day of second calendar month following month of sampling |
| Quarterly | Closest of January 1, April 1, July 1, or October 1 following (or on) permit effective date | January 1 through March 31 April 1 through June 30 July 1 through September 30 October 1 through December 31 | May 1 August 1 November 1 February 1 |
| Semi-Annually | Closest of January 1 or July 1 following (or on) permit effective date | January 1 through June 30 July 1 through December 31 | August 1 February 1 |
| Annually | January 1 following (or on) permit effective date | January 1 through December 31 | February 1 |

- The Discharger shall report with each sample result the applicable Minimum Level (ML) and the current Method Detection Limit (MDL), as determined by the procedure in 40 CFR Part 136.

5. The Discharger shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the facility is operating in compliance with interim and/or final effluent limitations.
6. The Discharger shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify violations of the WDRs; discuss corrective actions taken or planned; and the proposed time schedule for corrective actions. Identified violations must include a description of the requirement that was violated and a description of the violation.
7. Discharge monitoring data shall be submitted in a format acceptable to the Regional Water Board and EPA. Specific reporting format may include preprinted forms and/or electronic media. The results of all monitoring required by this Order shall be reported to the Regional Water Board, and shall be submitted in such a format as to allow direct comparison with the limitations and requirements of this Order. The hard copy of submitted reports shall serve as the official submittal.
8. SMRs must be submitted to the Regional Water Board, signed and certified as required by the standard provisions (Attachment D), to the address listed below:

Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, CA 92501-3348

C. Discharge Monitoring Reports (DMRs)

1. As described in Section X.B.1 above, at any time during the term of this Order, the State or Regional Water Board may notify the Discharger to electronically submit self-monitoring reports. Until such notification is given, the Discharger shall submit discharge-monitoring reports (DMRs) in accordance with the requirements described below.
2. DMRs must be signed and certified as required by the standard provisions (Attachment D). The Discharge shall submit the original DMR and one copy of the DMR to the address listed below:

State Water Resources Control Board
Discharge Monitoring Report Processing Center
Post Office Box 671
Sacramento, CA 95812

3. All discharge monitoring results must be reported on the official USEPA pre-printed DMR forms (EPA Form 3320-1). Forms that are self-generated or modified cannot be accepted.

Attachment F – Fact Sheet – Table of Contents

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ATTACHMENT F – FACT SHEET

As described in Section II of this Order, this Fact Sheet includes the legal requirements and technical rationale that serve as the basis for the requirements of this Order.

I. PERMIT INFORMATION

A. The following table summarizes administrative information related to the facility.

| | |
|---|---|
| WDID | 8 332253001 |
| Discharger | Lee Lake Water District |
| Name of Facility | Lee Lake Water Reclamation Facility, Corona |
| Facility Address | 22646 Temescal Canyon Road |
| | Corona, CA 92883 |
| | Riverside County |
| Facility Contact, Title and Phone | John Pastore, General Manager, (909) 277-1414 |
| Authorized Person to Sign and Submit Reports | Ken Caldwell, Superintendent, (951) 277-1414 |
| Mailing Address | Same as facility address |
| Billing Address | Same as facility address |
| Type of Facility | POTW |
| Major or Minor Facility | Major |
| Threat to Water Quality | 1 |
| Complexity | A |
| Pretreatment Program | N |
| Reclamation Requirements | Producer/User |
| Facility Permitted Flow | 1.58 million gallons per day |
| Facility Design Flow | 1.58 million gallons per day |
| Watershed | Santa Ana River |
| Receiving Water | Temescal Creek and Bedford Groundwater Management Zone |
| Receiving Water Type | Freshwater – Creek and Groundwater |

B. The Lee Lake Water District (hereinafter Discharger) owns and operates the Lee Lake Water Reclamation Facility (hereinafter Facility), a tertiary treatment facility. The Discharger's service area encompasses approximately 6,755 acres within Riverside County, much of which is undeveloped. The Discharger currently provides sewerage services to approximately 450 acres. Planned future service areas include the Sycamore Creek Subdivision and Retreat Subdivision, which will necessitate the expansion of current treatment plant capacity. The facility receives and treats domestic wastewater generated within the discharger's service area. The discharges from the facility are currently regulated under Order No. R8-2002-0001, NPDES No. CA8000100. The Discharger proposes to expand its Facility's treatment capacity from 0.9 to 1.58 million gallons per day. The expansion will also include the construction of a reclaimed force main to irrigation ponds at The Retreat Golf Course. Order No. R8-2002-0001 is being revised and reissued to reflect this proposed increase in the Facility's treatment capacity, including increase in recycled water use. As previously authorized under Order No. R8-2002-0001, tertiary treated wastewater from the Facility will be discharged intermittently

to Temescal Creek, Reach 1. Most of the tertiary treated wastewater will continue to be recycled.

- C. The Discharger filed a report of waste discharge and submitted an application for modification/reissuance of its Waste Discharge Requirements (WDRs) and National Pollutant Discharge Elimination System (NPDES) permit on December 20, 2004. Supplemental Information was requested and received on June 7, 2005.

II. FACILITY DESCRIPTION

A. Description of Wastewater and Biosolids Treatment or Controls

As discussed above, the Discharger proposes to expand the existing treatment capacity of the facility from 0.9 million gallons daily (MGD) to 1.58 million gallons per day average dry weather flow. The plant expansion will also include mechanical sludge dewatering. The current plant expansion design incorporates the same treatment processes as the existing plant. The wastewater treatment process consists of screening, grit removal, sequencing batch reactors (activated sludge/secondary clarification), flow equalization, rapid mix/flocculation, filtration, chlorination and dechlorination. Sludge from the facility is aerobically digested and dewatered prior to disposal. The Facility will produce tertiary treated water that complies with requirements established in Title 22 of the California Code of Regulations for unrestricted non-potable water reuse.

Waste activated sludge is conveyed to the aerobic digesters. The existing Facility has two aerobic digestion tanks that are each 25 ft x 25 ft by 24.5 ft deep. The expanded plant will have one new digester with dimensions of 30.75 ft x 30.75 ft x 24.5 deep. The three tanks together provide adequate facilities to aerobically digest the sludge produced for the expanded facility. The existing Facility utilizes lined drying beds to dewater the aerobically digested sludge. The Facility expansion includes the construction of new mechanical dewatering facilities within an existing building to accommodate the increased sludge production. A dewatering centrifuge operating at a feed rate of 60 gallons per minute will be used to dewater aerobically digested sludge. Filtrate from the dewatering process will flow back to the influent pump station for treatment. Dewatered sludge cake (Class B Biosolids) will be stored onsite between periodic disposal to a local landfill.

B. Discharge Points and Receiving Waters

The treatment facility and discharge points are located in an unincorporated area of Riverside County, within the SE $\frac{1}{4}$ corner of the NW $\frac{1}{4}$ portion of Section 27, T4S, R6W, SSB&M.

Recycled water is used for landscape irrigation of the 16-acre facility site and irrigation ponds at the Retreat Golf Course. The planned future service area for recycled water use includes landscape irrigation at the Ridge properties commercial development. Any excess wastewater will be discharged to Temescal Creek at latitude 33°49'42"N and longitude 117°30'45"W.

C. Summary of Existing Requirements and Self-Monitoring Report (SMR) Data

1. Effluent limitations contained in the previous Order R8-2002-0001 are as follows:

| Parameter (units) | Effluent Limitation | | | | | |
|------------------------------------|--|-----------------------|------------------|--------------------------|---------------------|----------------|
| | Average Monthly | Average Weekly | Maximum Daily | Instantaneous Maximum | 12-month Average | Single Test |
| Discharge Flow (MGD) | -- | -- | 0.9 | -- | -- | -- |
| BOD (mg/L) | 20 | 30 | -- | -- | -- | -- |
| TSS (mg/L) | 20 | 30 | -- | -- | -- | -- |
| Total Inorganic Nitrogen (mg/L) | | | -- | -- | 13 | -- |
| pH (pH units) | -- | -- | 6.5 – 8.5 | | | -- |
| Total Chlorine Residual (mg/l) | -- | -- | -- | 0.1 | -- | -- |
| Total Dissolved Solids (mg/l) | -- | -- | -- | -- | 650 | -- |
| Selenium (ug/L) | 4 | -- | 8 | -- | -- | -- |
| Copper (ug/L) | 24 | -- | 48 | -- | -- | -- |
| Chronic Toxicity | -- | -- | -- | -- | -- | 1.0TUc |
| Total Coliform | MPN of 23/100 ml. in any Calender Month | MPN of 2.2/100 ml. | | | | |

2. Self-Monitoring Report (SMR) Data for previous Order R8-2002-0001 are as follows:

| Parameter (units) | Monitoring Data from 9-2002 To 6-2005 | | |
|---------------------------------|---|--|----------------------------|
| | Highest Average Monthly Discharge | Highest Average Weekly Discharge | Highest Daily Discharge |
| Discharge Flow (MGD) | 0.66 | | 0.598 |
| BOD (mg/L) | 10.25 | 26 | 26 |
| TSS (mg/L) | 14.75 | 44 | 44 |
| Total Inorganic Nitrogen (mg/L) | 10.55 | 17 | 17 |
| pH (pH units) | 7.6 | 7.65 | 7.65 |
| Total Chlorine Residual (mg/l) | < 0.10 | < 0.10 | < 0.10 |
| Total Dissolved Solids (mg/l) | 720 | 720 | 720 |
| Selenium (ug/L) | 27 | 27 | 27 |
| Copper (ug/L) | 33.5 | 57 | 57 |
| Chronic Toxicity | > 1.0 TUc | > 1.0 TUc | > 1.0 TUc |
| Total Coliform | 2.0 | 140 | 1600 |

D. Compliance Summary

Based on a review of effluent monitoring data submitted by the Discharger for the period from 2002 through 2005, the wastewater discharged from the wastewater treatment facility was in violation of the following effluent limitations:

2002: One violation for selenium at 5.44 ug/l.

2003: Three violations for selenium at 7.9 ug/l, 27.0 ug/l and 4.2 ug/l.
One violation for copper at 25 ug/l.

2004: Three violations for selenium at 4.1 ug/l, 4.1 ug/l and 4.6 ug/l.
Turbidity violations (during the heavy rains in November and December, an unusual amount of inflow from construction sites caused the turbidity to exceed the limit on 7 days).

2005: Three violations for turbidity as a result of heavy rain inflow.
Twenty-one coliform violations resulting from a plugged chlorine injector.

Chronic Toxicity: 2003 was the first year that chronic toxicity was required. The first two samples failed the test, resulting in the need for a Toxicity Identification Evaluation (TIE). The TIE indicated ammonia, metals and surfactants as the toxic elements. The operation of the secondary system was pinpointed as the problem and operational changes were instituted that corrected the problem. Subsequent testing through 2005 has indicated no toxicity.

E. Planned Changes:

The discharger is proposing to increase its treatment capacity from 0.9 mgd to 1.58 mgd. The plant expansion will also include mechanical sludge dewatering and construction of a reclaimed water pump station at the Facility that will convey tertiary treated wastewater through a force main to irrigation ponds at the Retreat Golf Course.

III. APPLICABLE PLANS, POLICIES, AND REGULATIONS

The requirements contained in the proposed Order are based on the requirements and authorities described in this section.

A. Legal Authorities

This Order is issued pursuant to section 402 of the Federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. Environmental Protection Agency (USEPA) and Chapter 5.5, Division 7 of the California Water Code (CWC). It shall serve as a NPDES permit for point source discharges from this facility to surface waters. This Order also serves as Waste Discharge Requirements (WDRs) pursuant to Article 4, Chapter 4 of the CWC.

B. California Environmental Quality Act (CEQA)

This action to adopt an NPDES permit is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 21100, et seq.) in accordance with Section 13389 of the CWC.

C. State and Federal Regulations, Policies, and Plans

1. A revised Water Quality Control Plan (Basin Plan) became effective on January 24, 1995. On January 22, 2004, the Regional Water Board adopted Resolution No. R8-2004-0001, amending the Basin Plan to incorporate revised boundaries for groundwater subbasins, now termed “management zones”, new nitrate-nitrogen and TDS objectives for the new management zones, and new nitrogen and TDS management strategies applicable to both surface and ground waters. The State Water Resources Control Board and Office of Administrative Law (OAL) approved the N/TDS Amendment on September 30, 2004 and December 23, 2004, respectively. The surface water components of the N/TDS Amendment are awaiting EPA approval, but do not bear significantly on these waste discharge requirements. This amendment updates the total dissolved solids (TDS) and nitrogen management plan for the Santa Ana Region and incorporates revised TDS/Nitrogen water quality objectives for groundwater. The groundwater-related components of the N/TDS Amendment became effective upon approval by OAL. Accordingly, these waste discharge requirements implement relevant, groundwater-related components of the N/TDS Amendment. The Basin Plan contains beneficial uses and water quality objectives for waters in the Santa Ana Region.

The total dissolved solids (TDS) and total inorganic nitrogen (TIN) limits in this Order are based on the wasteload allocation specified in Table 5-5 of the 2004 amended Basin Plan. Although the surface water component of the amended Basin Plan (which includes Table 5-5) has not been approved by the US EPA, the TDS and TIN wasteload allocations specified in Table 5-5 for Lee Lake Water District are the same as the TDS and TIN wasteload allocations specified in the 1995 Basin Plan for Lee Lake Water District.

Tertiary treated wastewater from the treatment plant is discharged intermittently to Temescal Creek (Reach 1), which is tributary to the Santa Ana River (Reach 3). The recycled water use sites overlie the Bedford Groundwater Management Zone. The beneficial uses of these affected waterbodies are as follows:

| Discharge Point | Receiving Water Name | Beneficial Use(s) |
|-----------------|---------------------------------------|---|
| 001 | Temescal Creek, Reach 2 ¹ | Water contact recreation, Non-contact water recreation, Warm freshwater habitat, and Wildlife habitat |
| 001 | Santa Ana River, Reach 3 ¹ | Agricultural supply, Groundwater recharge, Water contact recreation, Non-contact water recreation, Warm freshwater habitat, Wildlife habitat, and Rare, threatened, and endangered species. |

¹ Expected from MUN
 Attachment F – Fact Sheet

| Discharge Point | Receiving Water Name | Beneficial Use(s) |
|-----------------|-------------------------------------|--|
| 002 | Bedford Groundwater Management Zone | Municipal and domestic supply, Agricultural supply, Industrial process supply, and Industrial service supply. |

2. National Toxics Rule (NTR) and California Toxics Rule (CTR). USEPA adopted the NTR on December 22, 1992, which was amended on May 4, 1995 and November 9, 1999, and the CTR on May 18, 2000, which was amended on February 13, 2001. These rules include water quality criteria for priority pollutants and are applicable to this discharge.
3. State Implementation Policy. On March 2, 2000, State Water Board adopted the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (State Implementation Policy or SIP). The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria promulgated for California by the USEPA through the NTR and to the priority pollutant objectives established by the Regional Water Boards in their basin plans, with the exception of the provision on alternate test procedures for individual discharges that have been approved by USEPA Regional Administrator. The alternate test procedures provision was effective on May 22, 2000. The SIP became effective on May 18, 2000. The SIP includes procedures for determining the need for and calculating water quality-based effluent limitations (WQBELs), and requires Dischargers to submit data sufficient to do so.
4. Antidegradation Policy. Section 131.12 of 40 CFR requires that State water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution 68-16, which incorporates the requirements of the federal antidegradation policy. Resolution 68-16 requires that existing water quality is maintained unless degradation is justified based on specific findings. The permitted discharge is consistent with the antidegradation provision of 40 CFR §131.12 and State Water Board Resolution 68-16.
5. Anti-Backsliding Requirements. Sections 402(o)(2) and 303(d)(4) of the CWA and 40 CFR §122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require that effluent limitations in a reissued permit must be as stringent as those in the previous permit, with some exceptions in which limitations may be relaxed. All effluent limitations in the Order are at least as stringent as the effluent limitations in the previous Order.
6. Monitoring and Reporting Requirements. Section 122.48 of 40 CFR requires that all NPDES permits specify requirements for recording and reporting monitoring results. Sections 13267 and 13383 of the CWC authorize the Regional Water Boards to require technical and monitoring reports. The Monitoring and Reporting Program (MRP) establishes monitoring and reporting requirements to implement federal and State requirements. This MRP is provided in Attachment E.

7. Pretreatment: The treatment plant capacity is only 1.58 mgd and there are no significant industrial users within the service areas. Consequently, this Order does not contain requirements for the implementation of an effective pretreatment program pursuant to Section 307 of the Federal Clean Water Act; Parts 35 and 403 of Title 40, Code of Federal Regulations (40 CFR 35 and 40 CFR 403); and/or Section 2233, Title 23, California Code of Regulations.
8. Biosolids: On February 19, 1993, the USEPA issued a final rule for the use and disposal of sewage sludge, 40 CFR, Part 503. This rule requires that producers of sewage sludge meet certain reporting, handling, and disposal requirements. The State of California has not been delegated the authority to implement this program, therefore, the U.S. Environmental Protection Agency is the implementing agency.

IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

The CWA requires point source discharges to be regulated to control the amount of conventional, non-conventional, and toxic pollutants that are discharged into the waters of the United States. The control of pollutants discharged is established through effluent limitations and other requirements in NPDES permits. There are two principal bases for effluent limitations: 40 CFR §122.44(a) requires that permits include applicable technology-based limitations and standards; and 40 CFR §122.44(d) requires that permits include water quality-based effluent limitations to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water. Where numeric water quality objectives have not been established, three options exist to protect water quality: 1) 40 CFR §122.44(d) specifies that WQBELs may be established using USEPA criteria guidance under CWA section 304(a); 2) proposed State criteria or a State policy interpreting narrative criteria supplemented with other relevant information may be used; or 3) an indicator parameter may be established.

A. Discharge Prohibitions

Discharge Prohibitions in this Board Order are based on the Federal Clean Water Act, Basin Plan, State Water Resources Control Board's plans and policies and U.S. Environmental Protection Agency guidance and regulations.

B. Technology-Based Effluent Limitations

1. Scope and Authority

The CWA requires that technology-based effluent limitations be established based on several levels of controls:

- a. Best practicable treatment control technology (BPT) represents the average of the best performance by plants within an industrial category or subcategory. BPT standards apply to toxic, conventional, and nonconventional pollutants.
- b. Best available technology economically achievable (BAT) represents the best existing performance of treatment technologies that are economically achievable within an industrial point source category. BAT standards apply to toxic and nonconventional pollutants.
- c. Best conventional pollutant control technology (BCT) represents the control from existing industrial point sources of conventional pollutants including BOD, TSS, fecal coliform, pH, and oil and grease. The BCT standard is established after considering the “cost reasonableness” of the relationship between the cost of attaining a reduction in effluent discharge and the benefits that would result, and also the cost effectiveness of additional industrial treatment beyond BPT.
- d. New source performance standards (NSPS) represent the best available demonstrated control technology standards. The intent of NSPS guidelines is to set limitations that represent state-of-the-art treatment technology for new sources.

The CWA requires EPA to develop effluent limitations, guidelines and standards (ELGs) representing application of BPT, BAT, BCT, and NSPS. Section 402(a)(1) of the CWA and 40 CFR §125.3 of the NPDES regulations authorize the use of best professional judgment (BPJ) to derive technology-based effluent limitations on a case-by-case basis where ELGs are not available for certain industrial categories and/or pollutants of concern. Where BPJ is used, the permit writer must consider specific factors outlined in 40 CFR §125.3.

2. Applicable Technology-Based Effluent Limitations

Basis for Limitations

| Constituents | Basis for Limitations |
|---------------------------------|---|
| Biochemical Oxygen Demand (BOD) | Discharges to waters that support aquatic life, which is dependent on oxygen. Organic matter in the discharge may consume oxygen as it breaks down. |
| Total Suspended Solids (TSS) | High levels of suspended solids can adversely impact aquatic habitat. Untreated or improperly treated wastewater can contain high amounts of suspended solids. |
| Hydrogen Ion (pH) | Hydrogen Ion (pH) is a measure of Hydrogen Ion concentration in the water. A range specified between 6.5 to 8.5 ensures suitability to biological life. This limitation is based on an objective adopted in the Basin Plan of the Santa Ana Region. |
| Total Dissolved Solids | High levels of TDS can adversely impact aquatic life and use of water for municipal and industrial supply. The TDS limit is based on evaluation of plant performance data and consistent with the Basin Plan. |
| Flow | The proposed design capacity of the treatment plant is 1.58 MGD. |

C. Water Quality-Based Effluent Limitations (WQBELs)

1. Scope and Authority

- a. Effluent discharged from this facility could contain pollutants in sufficient quantities to affect receiving water quality. Pursuant to Section 13263, Article 4, Chapter 4 of the Porter Cologne Water Quality Control Act, the Regional Water Boards are required to issue Waste Discharge Requirements for discharges that could affect the quality of the State's waters. Furthermore, Federal Regulation 40 CFR 122.1 requires the issuance of NPDES permits for pollutants discharged from a point source to the waters of the United States.
- b. The U.S. Environmental Protection Agency published the adopted California Toxics Rule (CTR) (40 CFR §131.38). The CTR promulgates new criteria for both human health protection and protection of aquatic life. New numeric aquatic life criteria for 23 priority toxic pollutants and numeric human health criteria for 57 priority toxic pollutants are listed. In addition, the CTR contains a compliance schedule provision, which authorizes the State to issue schedules of compliance for new or revised NPDES permit limits based on the federal criteria when certain conditions are met.

2. Applicable Water Quality Criteria and Objectives

Table, below summarizes the applicable water quality criteria/objective for priority pollutants reported in detectable concentrations in the effluent or receiving water. These criteria were used in conducting the Reasonable Potential Analysis for this Order.

| CTR No. | Parameter | Water Quality Criteria | | | |
|---------|----------------|------------------------|-------------------|----------------------------------|----------------|
| | | Freshwater | | Human Health for Consumption of: | |
| | | Acute | Chronic | Water & Organisms | Organisms only |
| | | µg/L | µg/L | µg/L | µg/L |
| 1 | Antimony | | | | 4,300 |
| 2 | Arsenic | 340 | 150 | | |
| 4 | Cadmium | 14.73 ¹ | 7.06 ¹ | | |
| 5a | Chromium (III) | 2153 ¹ | 257 ¹ | | |
| 5b | Chromium (VI) | 16.3 | 11.4 | | |
| 6 | Copper | 44.7 ¹ | 29.1 ¹ | | |
| 7 | Lead | 524 ¹ | 201 | | |
| 8 | Mercury | | | | 0.051 |
| 9 | Nickel | 586 ¹ | 65 ¹ | | 4,600 |
| 10 | Selenium | | 5 | | |
| 11 | Silver | 1.0 ¹ | | | |
| 12 | Thallium | | | | 6.3 |
| 13 | Zinc | 150 ¹ | 150 ¹ | | |
| 14 | Cyanide | 22 | 5.2 | | 220,000 |

¹

Based on a hardness value of 130 mg/L

3. Determining the need for WQBELs

In accordance with Section 1.3 of the SIP, the Regional Water Board conducted a reasonable potential analysis (RPA) for each priority pollutant with an applicable criterion or objective to determine if a WQBEL is required in the Order. The Regional Water Board analyzed effluent data to determine if a pollutant in a discharge has the reasonable potential to cause or contribute to an excursion above a state water quality standard. For all parameters that have the reasonable potential to cause or contribute to an excursion above a water quality standard, numeric WQBELs are required. The RPA considers criteria from the CTR, and when applicable, water quality objectives specified in the Basin Plan.

Sufficient data are needed to conduct a complete RPA. If data are not sufficient, the discharger will be required to gather the appropriate data for the Regional Water Board to conduct the RPA. Upon review of the data, and if the Regional Water Board determines that WQBELs are needed to protect the beneficial uses, the permit will be reopened for appropriate modification.

The RPA was performed for the priority pollutants for which effluent data were available. These data were used in the RPA and are summarized in the following Table:

LEE LAKE WATER DISTRICT
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| Analysis (Limit) | Unit | MEC | median | MEC | CTR | | MEC vs.CTR | | |
|--|----------|-----|--------|-----|------|-------|------------|-----|-----|
| Flow | MGD | | | | cmc | ccc | | cmc | ccc |
| Turbidity (0.2) | NTU | | | | | | | | |
| pH (6.5-8.5) | pH units | | | | | | | | |
| Coliform (23) | MPN | | | | | | | | |
| 7 day median (2.2) | MPN | | | | | | | | |
| TSS (20) | mg/l | | | | | | | | |
| BOD (20) | mg/l | | | | | | | | |
| TIN (13) | mg/l | | | | | | | | |
| NH-N | mg/l | | | | | | | | |
| TDS (650) | mg/l | | | | | | | | |
| Chloride | mg/l | | | | | | | | |
| Sodium | mg/l | | | | | | | | |
| Sulfate | mg/l | | | | | | | | |
| Total Hardness | mg/l | | 130 | | | | | | |
| Selenium (4) | ug/l | 27 | | 27 | | 5.0 | 27 | | YES |
| Copper (24) | ug/l | 25 | | 25 | 44.7 | 29.1 | 25 | NO | YES |
| Chronic Toxicity (see page 10 of 28) | | | | | | | | | |
| Cyanide | ug/l | 0 | | 5 | 22 | 5.2 | 5 | NO | NO |
| Arsenic | ug/l | 0 | | 0 | | | | | |
| Barium | ug/l | 0 | | 0 | | | | | |
| Cobalt | ug/l | 0 | | 0 | | | | | |
| Iron | ug/l | 32 | | 32 | | | 32 | | |
| Zinc | ug/l | 75 | | 75 | | | | | |
| Lead | ug/l | 0 | | 10 | 524 | 20 | 10 | NO | NO |
| Cadmium | ug/l | 0 | | 2 | 14.7 | 7.1 | 2 | NO | NO |
| Mercury | ug/l | 0 | | 0.5 | | 0.051 | 0.5 | NO | NO |
| Manganese | ug/l | | | | | | | | |
| Total Chromium | ug/l | 0 | | 20 | 16.3 | 11.4 | 20 | NO | NO |
| Silver | ug/l | 0 | | 10 | 6.4 | --- | 10 | NO | NO |
| Note: Monitoring for Total Chromium, Silver and Mercury were conducted using high reporting levels, the Discharger will be required to monitor for these constituents at lower detection level, if possible down to the water quality criteria values. | | | | | | | | | |

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| PERMIT LIMIT CALCULATION AND DETERMINATION OF THE MOST APPROPRIATE ML VALUE CONSIDERING CV OF 0.6 | | | | | | | | | | | | | | |
|---|--|------------|------------|--------------|--------------|------------|-------------|------------|------------------|------------|---------------|-------|---------------------|------------|
| | | | | | unit in ug/l | | | | | | | | | |
| | | | | | | CV = 0.6 | | | Aquatic | | Human | | Permit Limit | |
| | | Caltoxics | | | | Acute M | Chronic M | LTA | Objective/limits | | Health Limits | | Concentration Limit | |
| | | Freshwater | | Human Health | | 0.321 | 0.527 | | 3.11 | 1.55 | 2.00645161 | | | |
| Constituent | | CMC | CCC | H2O+Org | Org only | Acute LTA | Chronic LTA | | MDEL | AMEL | MDEL | AMEL | MDEL | AMEL |
| Chromium (VI) | | 16.293279 | 11.4345114 | | | 5.23014257 | 6.02598753 | 5.23014257 | 16.2657434 | 8.10672098 | | | 16.2657434 | 8.10672098 |
| Mercury | | | | 0.05 | 0.051 | | | 0 | | | 0.10232903 | 0.051 | 0.10232903 | 0.051 |
| Selenium | | 0 | 5 | | | 0 | 2.635 | 2.635 | 8.19485 | 4.08425 | | | 8.19485 | 4.08425 |
| Silver | | 6.37356683 | --- | | | 2.04591495 | | 2.04591495 | 6.3627955 | 3.17116818 | 0 | 0 | 6.3627955 | 3.17116818 |
| Copper | | 44.7 | 29.1 | | | 14.3487 | 15.3357 | 14.3487 | 44.6245 | 22.2405 | | | 44.6245 | 22.2405 |
| 1. Reasonable portential analyses indicated that Silver's MEC was greater than CTR, therefore, effluent limits are set up. | | | | | | | | | | | | | | |
| 2. The detection levels for Chromium, mercury, and silver are higher than CTRs, then no RPA could be conducted. Need to monitor constituents at lower detection levels. | | | | | | | | | | | | | | |
| 3. The ND for chromium should be at least as low as 10 ppb, mercury as 0.05 ppb, and silver as 5 ppb. | | | | | | | | | | | | | | |

LEE LAKE WATER DISTRICT
LEE LAKE WATER RECLAMATION FACILITY
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Permit limit implementing California Toxics Rule for freshwater discharges

Hardness Dependent Trace Metals to determine CMC and CCC, then to put into MEC table form comparison

| | | | | | | | | | | | | |
|-------------------------|--|----------------|---------------------|----------------|-----------------|-----------------|-----------|---|---------------------------------------|-------|-------------------|---------|
| Effluent Hardness = 130 | | | LN Hardness = 4.868 | | | | | | | | | |
| California Toxics Rule | | | | | | | Dissolved | | | | Total Recoverable | |
| Metal | m _A | b _A | m _C | b _C | CF _A | CF _C | CMC | CCC | T/D Ratio | WER | Acute | Chronic |
| Antimony | No Published Aquatic Criterion Value | | | | (b) | (b) | | | No CMC, CCC use Human Health Criteria | | | |
| Arsenic | | | | | 1.000 | 1.000 | 340 | 150 | 1.0 | 1.0 | 340 | 150 |
| Beryllium | No Published Aquatic Criterion Value | | | | (b) | (b) | | | No CMC, CCC or Human Health Criteria | | | |
| Cadmium | 1.128 | -3.6867 | 0.7852 | -2.715 | 0.933 | 0.898 | 5.67 | 2.72 | 2.60 | 1.00 | 14.73 | 7.06 |
| Chromium (III) | 0.819 | 3.688 | 0.819 | 1.561 | 0.316 | 0.860 | 680.3 | 220.7 | 1.0 | 1.0 | 2153 | 257 |
| Chromium (VI) | --- | --- | --- | --- | 0.982 | 0.962 | 16.0 | 11.0 | 1/Cfa | 1/CFc | 16.3 | 11.4 |
| Copper | 0.9422 | -1.7 | 0.8545 | -1.702 | 0.960 | 0.960 | 17.2 | 11.2 | 2.6 | 1.0 | 44.7 | 29.1 |
| Cyanide | | | | | | | | | | | 22.0 | 5.2 |
| Lead | 1.273 | -1.46 | 1.273 | -4.705 | 0.753 | 0.753 | 85.8 | 3.3 | 6.1 | 1.0 | 524 | 20 |
| Mercury | No CMC or CCC use Human Health Criteria for organisms only | | | | | | | 0.051 | 1/Cfa | 1/CFc | | 0.051 |
| Nickel | 0.846 | 2.255 | 0.846 | 0.0584 | 0.998 | 0.997 | 585 | 65 | 1.0 | 1.0 | 586 | 65 |
| Selenium | --- | --- | --- | --- | (a) | (a) | | 5.0 | | | | 5.0 |
| Silver | 1.72 | -6.52 | --- | --- | 0.850 | (b) | 5.4 | --- | 1/Cfa | 1.0 | 6.4 | --- |
| Thallium | --- | --- | --- | --- | (b) | (b) | --- | No CMC or CCC use Human Health Criteria | | | | |
| Zinc | 0.8473 | 0.884 | 0.8473 | 0.884 | 0.978 | 0.986 | 146 | 148 | 1.0 | 1.0 | 150 | 150 |

(a) Bioaccumulative compound and inappropriate to adjust to percent dissolved

(b) EPA has not published an aquatic life criteriorn value

unit: ug/l

Equation used :

$$CMC = (\exp\{m_A \{\ln(\text{hardness})\} + b_A\})$$

$$\text{Acute Value} = CMC \times WER \times \text{Acute Conversion Value (CFA)} \times \text{T/D Ratio (1/CFA)}$$

$$CCC = (\exp\{m_C \{\ln(\text{hardness})\} + b_C\})$$

$$\text{Chronic Value} = CCC \times xWER \times \text{Chronic Conversion Factor (CFC)} \times \text{T/D Ratio (c 3. For those metals without site specific t/d ratio developed, the total to dissolved ratio for these metals is either 1/CFA for CMC or 1.0 for CCC)}$$

Notes:

1. The water effect ratio being used is 1

2. The site specific total to dissolved ratio for cadmium, copper and lead are as follows:

a. Cadmium 2.6 :1

b. Copper 2.6:1

c. Lead 6.1:1

4. No mixing zone and dilution considered in the calculation.

5. Permit limit calculations is based on the procedures stipulated in the Policy for Implementation of Toxics Standards for Inland Surf

6. Total hardness is 130 mg/l based on median of Lee lake effluent from 1/00 through 10/04.

4. **WQBEL Calculations**

- a. Water quality based effluent limits (final) are based on monitoring results and following the calculation process outlined in Section 1.4 of the California Toxics Rule and the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays and Estuaries of California. The final WQBELs were calculated for this Order using the process described below.

- b. **WQBELS Calculation Example**

Using selenium as an example, the following methodology demonstrates how water quality based effluent limits were established for this Order. The process for developing these limits is in accordance with Section 1.4 of the SIP.

Step 1:

For selenium the applicable freshwater water quality criterion is:

$$ECA_{\text{chronic}} = 5.00 \mu\text{g/l}$$

Step 2: For each ECA based on aquatic life criterion/objective, determine the long-term average discharge condition (LTA) by multiplying the ECA by a factor (multiplier). The multiplier is a statistically based factor that adjusts the ECA to account for effluent variability. The value of the multiplier varies depending on the coefficient of variation (CV) of the data set and whether it is an acute or chronic criterion/objective. Table 1 of SIP provides pre-calculated values for the multipliers based on the value of the CV. Equations to develop the multipliers in place of using values in the tables are provided in Section 1.4, Step 3 of the SIP and will not be repeated here.

$$LTA_{\text{acute}} = ECA_{\text{acute}} \times \text{Multiplier}_{\text{acute}}$$

$$LTA_{\text{chronic}} = ECA_{\text{chronic}} \times \text{Multiplier}_{\text{chronic}}$$

The CV for the data set must be determined before the multipliers can be selected and will vary depending on the number of samples and the standard deviation of a data set. If the data set is less than 10 samples, or at least 80% of the samples in the data set are reported as non-detect, the CV shall be set equal to 0.6.

For selenium, the following data was used to develop the acute and chronic LTA using Table 1 of the SIP:

| No. of Samples | CV | Multiplier _{acute} | Multiplier _{chronic} |
|----------------|-----|-----------------------------|-------------------------------|
| 8 | 0.6 | 0.321 | 0.527 |

$$LTA_{\text{chronic}} = 5.00 \mu\text{g/l} \times 0.527 = 2.64 \mu\text{g/l}$$

Step 3: Select the most limiting (lowest) of the LTA.

LTA = most limiting of LTA_{acute} or LTA_{chronic}

For selenium, the most limiting LTA was the LTA_{acute}

$$LTA = 2.64 \mu\text{g/l}$$

Step 4: Calculate the water quality based effluent limits by multiplying the LTA by a factor (multiplier). Water quality-based effluent limits are expressed as Average Monthly Effluent Limitations (AMEL) and Maximum Daily Effluent Limitation (MDEL). The multiplier is a statistically based factor that adjusts the LTA for the averaging periods and exceedance frequencies of the criteria/objectives and the effluent limitations. The value of the multiplier varies depending on the probability basis, the coefficient of variation (CV) of the data set, the number of samples (for AMEL) and whether it is monthly or daily limit. Table 2 of the SIP provides pre-calculated values for the multipliers based on the value of the CV and the number of samples. Equations to develop the multipliers in place of using values in the tables are provided in Section 1.4, Step 5 of the SIP and will not be repeated here.

$$AMEL_{\text{aquatic life}} = LTA \times AMEL_{\text{multiplier}}$$

$$MDEL_{\text{aquatic life}} = LTA \times MDEL_{\text{multiplier}}$$

AMEL multipliers are based on a 95th percentile occurrence probability, and the MDEL multipliers are based on the 99th percentile occurrence probability. If the number of samples is less than four (4), the default number of samples to be used is four (4).

For selenium, the following data was used to develop the AMEL and MDEL for aquatic life using Table 2 of the SIP:

| No. of Samples | CV | MultiplierMDEL | MultiplierAMEL |
|----------------|-----|----------------|----------------|
| 8 | 0.6 | 3.11 | 1.55 |

$$AMEL_{\text{aquatic life}} = 2.64 \times 1.55 = 4.08 \mu\text{g/l}$$

$$MDEL_{\text{aquatic life}} = 2.64 \times 3.11 = 8.21 \mu\text{g/l}$$

Copper Limitations:

The calculations for Copper effluent limitations showed maximum daily concentration limit of 45 $\mu\text{g/l}$ and an average monthly concentration limit of 29 $\mu\text{g/l}$. However, in the previous Order, maximum daily and average monthly concentration limits for copper were 48 $\mu\text{g/l}$ and 24 $\mu\text{g/l}$. Due to anti-backsliding provisions, the maximum daily limit of 45 $\mu\text{g/l}$ in the previous Order and the new calculated average monthly concentration limit of 24 $\mu\text{g/l}$ will be used in this Order.

D. Final Effluent Limitations

Final effluent limitations required by this Order are shown in Section 1V, Effluent Limitations and Discharge Specifications of the Order.

Proposed effluent limitations are based on tertiary treatment standards.

1. Mass-based Effluent Limitations

Mass-based effluent limitations are established using the following formula:

$$\text{Mass (lbs/day)} = \text{flow rate (MGD)} \times 8.34 \times \text{effluent limitation (mg/L)}$$

where: Mass = mass limitation for a pollutant (lbs/day)

Effluent limitation = concentration limit for a pollutant (mg/L)

Flow rate = discharge flow rate (MGD)

E. Interim Effluent Limitations (Not Applicable)

F. Land Discharge Specifications (Not applicable)

G. Reclamation Specifications

Section 13523 of the California Water Code provides that a Regional Water Board, after consulting with and receiving the recommendations from the CDHS and any party who has requested in writing to be consulted, and after any necessary hearing, shall prescribe water reclamation requirements for water which is used or proposed to be used as recycled water, if, in the judgment of the Board, such requirements are necessary to protect the public health, safety, or welfare. Section 13523 further provides that such requirements shall include, or be in conformance with, the statewide uniform water recycling criteria established by the CDHS pursuant to California Water Code Section 13521.

Reclamation specifications in the proposed Order are based upon the recycling criteria contained in Title 22, Division 4, Chapter 3, Sections 60301 through 60355, California Code of Regulations, "Guidelines for Use of Reclaimed Water" by the California Department of Health Services, and Pursuant to the California Water Code Section 13521.

V. RATIONALE FOR RECEIVING WATER LIMITATIONS

A. Surface Water

1. The surface water receiving water limitations in the proposed Order are based upon the water quality objectives contained in the Basin Plan. As such, they are required part of the proposed Order.
2. Requirement to meet 2.2 total coliform bacteria limit in the effluent:
 - a. Article 3, Section 60305 of Title 22, Chapter 3, "Reclamation Criteria" of the California Code of Regulations specifies that recycled water used as a source supply for nonrestricted recreational impoundments shall be at all times an adequately disinfected, oxidized, coagulated, clarified, filtered wastewater (tertiary treated). The degree of treatment specified represents an approximately 5-log reduction in the virus content of the water. The California Department of Health Services (CDHS) has determined that this degree of virus removal is necessary to protect the health of people using these impoundments for water contact recreation.
 - b. The CDHS has developed wastewater disinfection guidelines ("Wastewater Disinfection for Health Protection", Department of Health Services, Sanitary Engineering Branch, February 1987) for discharges of wastewater to surface waters where water contact recreation (REC-1) is a beneficial use. The disinfection guidelines recommend the same treatment requirements for wastewater discharges to REC-1 waters as those stipulated in Title 22 for supply of recycled water to nonrestricted recreational impoundments, since the public health risks under both scenarios are analogous. The disinfection guidelines are based on sound science and are widely used as guidance to assure public health and beneficial use protection.
 - c. The Santa Ana River and Temescal Creek are not "nonrestricted recreational impoundments," nor is "recycled water", as defined in the Reclamation Criteria, being used as a supply source for the River or Creek. However, except during major storms, most of the flow in the River and Creek is composed of treated municipal wastewater discharges. The River and Creek are used for water contact recreation and, accordingly, are designated REC-1 (water contact beneficial use). People recreating in the River or Creek face an exposure similar to those coming in contact with recycled water in an impoundment. Therefore, to protect the water contact recreation beneficial use and to prevent nuisance and health risk, it is necessary and appropriate to require the same degree of treatment for wastewater

discharges to the River and Creek as would be required for the use of recycled water in a nonrestricted recreational impoundment.

B. Groundwater

The Bedford Groundwater Management Zone does not have numeric water quality objectives for total dissolved solids or total inorganic nitrogen. Narrative objectives specified in the Basin Plan apply. The Discharger is required to conduct groundwater monitoring at recycled water use sites for three years. The results of this groundwater monitoring program will be used to develop groundwater quality objectives for total dissolved solids and total inorganic nitrogen for the Bedford Groundwater Management Zone.

VI. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS

Section 122.48 of 40 CFR requires all NPDES permits to specify recording and reporting of monitoring results. Sections 13267 and 13383 of the California Water Code authorize the Water Boards to require technical and monitoring reports. The Monitoring and Reporting Program, Attachment E of this Order, establishes monitoring and reporting requirements to implement federal and state requirements. The following provides the rationale for the monitoring and reporting requirements contained in the Monitoring and Reporting Program for this facility.

A. Influent Monitoring

This Order carries forward the treatment plant influent monitoring requirements without change. No rationale for requirements necessary?

B. Effluent Monitoring

The Discharger is required to conduct monitoring of the permitted discharges in order to evaluate compliance with permit conditions. Monitoring requirements are given in the proposed monitoring and reporting program (Attachment E). This provision requires compliance with the monitoring and reporting program, and is based on 40 CFR 122.44(i), 122.62, 122.63 and 124.5. The SMP is a standard requirement in almost all NPDES permits (including the proposed Order) issued by the Regional Water Board. In addition to containing definitions of terms, it specifies general sampling/analytical protocols and the requirements of reporting of spills, violations, and routine monitoring data in accordance with NPDES regulations, the California Water Code, and Regional Water Board's policies. The monitoring and reporting program also contains sampling program specific for the Discharger's wastewater treatment plant. It defines the sampling stations and frequency, pollutants to be monitored, and additional reporting requirements. Pollutants to be monitored include all pollutants for which effluent limitations are specified. Further, in accordance with Section 1.3 of the SIP, periodic monitoring is required for all priority pollutants defined by the CTR, for which criteria apply and for which no effluent limitations have been established, to evaluate reasonable potential to cause or contribute to an excursion above a water quality standard.

C. Whole Effluent Toxicity Testing

Whole effluent toxicity (WET) protects the receiving water quality from the aggregate toxic effect of a mixture of pollutants in the effluent. WET tests measure the degree of response of exposed aquatic test organisms to an effluent. The WET approach allows for protection of the narrative “no toxics in toxic amounts” criterion while implementing numeric criteria for toxicity. There are two types of WET tests: acute and chronic. An acute toxicity test is conducted over a shorter time period and measures mortality. A chronic toxicity test is conducted over a longer period of time and may measure mortality, reproduction, and growth.

The Basin Plan specifies a narrative objective for toxicity, requiring that all waters be maintained free of toxic substances in concentrations that are lethal to or produce other detrimental response on aquatic organisms. Detrimental response includes but is not limited to decreased growth rate, decreased reproductive success of resident or indicator species, and/or significant alterations in population, community ecology, or receiving water biota.

In addition to the Basin Plan requirements, Section 4 of the SIP states that a chronic toxicity effluent limitation is required in permits for all discharges that will cause, have the reasonable potential to cause, or contribute to chronic toxicity in receiving waters. In accordance with the SIP, this Order requires the Discharger to conduct chronic toxicity testing. In addition, the Order establishes thresholds that when exceeded require the Discharger to conduct accelerated toxicity testing and/or conduct toxicity identification evaluation (TIE) studies.

This Order requires the discharger to conduct chronic toxicity testing of the effluent on a monthly basis. The Order also requires the discharger to conduct an Initial Investigation Toxicity Reduction Evaluation (IITRE) program when either the two-month median of toxicity test results exceeds 1 TUc or any single test exceeds 1.7 TUc for survival endpoint. Based on the results of this investigation program and at the discretion of the Executive Officer, a more rigorous Toxicity Reduction Evaluation/Toxicity Identification Evaluation (TRE/TIE) may be required. A re-opener provision is included in the Order to incorporate a chronic toxicity effluent limitation if warranted by the toxicity test results.

D. Receiving Water Monitoring

1. Surface Water

Receiving water monitoring is required to determine compliance with receiving water limitations and to characterize the water quality of the receiving water. Requirements are based on the Basin Plan.

2. Groundwater

The Discharger is required to submit a proposed program for conducting groundwater monitoring at recycled water use sites for three years. The Discharger is required to implement that program upon approval. Monitoring results of this groundwater-monitoring program will be used to develop groundwater quality objectives for total dissolved solids and total inorganic nitrogen for the Bedford Groundwater Management Zone.

E. Other Monitoring Requirements

1. Water Supply Monitoring

The Discharger will be required to collect a sample of each source of water supplied and analyze for total dissolved solids. The results of this monitoring will be used to evaluate compliance with TDS limitations in the Order.

2. Biosolids/Sludge Monitoring

To track where, how much and what quality of biosolids is disposed, the Order requires the Discharger to maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and to provide a summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agricultural, composting, etc.), and the destination in accordance with the Monitoring and Reporting Program of this Order. The sludge that is stockpiled at the treatment facility will be sampled and analyzed for those constituents listed in the sludge monitoring section of the Monitoring and Reporting Program of this Order.

VII. RATIONALE FOR PROVISIONS

A. Standard Provisions

Standard Provisions, which in accordance with 40 CFR §§122.41 and 122.42, apply to all NPDES discharges and must be included in every NPDES permit, are provided in Attachment D to the Order.

B. Special Provisions

1. Reopener Provisions

This provision is based on 40 CFR Part 123. The Regional Water Board may reopen the permit to modify permit conditions and requirements. Causes for modifications include the promulgation of new regulations, modification in sludge use or disposal practices, or adoption of new regulations by the State Board or Regional Water Board, including revisions to the Basin Plan.

2. Special Studies and Additional Monitoring Requirements

- a. Toxicity Identification Evaluations or Toxicity Reduction Evaluations. This provision is based on the SIP, Section 4, Toxicity Control Provisions.
- b. Antidegradation Analysis. This provision is based on State Water Resources Control Board Resolution No. 68-16, which requires the Board in regulating the discharge of waste to maintain high quality waters of the state (the Discharger must demonstrate that it has implemented adequate controls (e.g., adequate treatment capacity) to ensure that high quality waters will be maintained.

3. Best Management Practices and Pollution Prevention

In accordance with Section 402 (p) of the Federal Clean Water Act, EPA published the final regulations for storm water runoff on November 16, 1990 (40 CFR Parts 122, 123 and 124). Industrial facilities, including POTW sites, are required to obtain NPDES Permits for storm water discharges. On April 17, 1997, the State Board adopted a General Industrial Storm Water Permit, Order No. 97-03-DWQ, NPDES No. CAS000001. This Order includes pertinent provisions of the General Industrial Storm Water Permit appropriate for this discharge.

4. Compliance Schedules (Not Applicable)

5. Special Provisions for Municipal Facilities (POTWs Only)

- a. Sludge Disposal Requirements. Requirements are based on the previous Order.

VIII. PUBLIC PARTICIPATION

The California Regional Water Quality Control Board, Santa Ana Region (Regional Water Board) is considering the issuance of waste discharge requirements (WDRs) that will serve as a National Pollutant Discharge Elimination System (NPDES) permit for the Lee Lake Water District's Wastewater Reclamation Facility. As a step in the WDR adoption process, the Regional Water Board staff has developed tentative WDRs. The Regional Water Board encourages public participation in the WDR adoption process.

A. Notification of Interested Parties

The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Notification was provided through the mailing list, Notice of Public Hearing and Notice of Posting Notice.

B. Written Comments

The staff determinations are tentative. Interested persons are invited to submit written comments concerning these tentative WDRs. Comments should be submitted either in person or by mail to the Executive Office at the Regional Water Board at the address above on the cover page of this Order.

To be fully responded to by staff and considered by the Regional Water Board, written comments should be received at the Regional Water Board offices by 5:00 p.m. on August 8, 2005

C. Public Hearing

The Regional Water Board will hold a public hearing on the tentative WDRs during its regular Board meeting on the following date and time and at the following location:

Date: August 26, 2005
Time: 12:30 p.m.
Location: Big Bear Lake Municipal Water District Conference Room
40524 Lakeview Drive
Big Bear Lake

Interested persons are invited to attend. At the public hearing, the Regional Water Board will hear testimony, if any, pertinent to the discharge, WDRs, and permit. Oral testimony will be heard; however, for accuracy of the record, important testimony should be in writing.

Please be aware that dates and venues may change. Our web address is www.waterboards.ca.gov/santaana where you can access the current agenda for changes in dates and locations.

D. Waste Discharge Requirements Petitions

Any aggrieved person may petition the State Water Resources Control Board to review the decision of the Regional Water Board regarding the final WDRs. The petition must be submitted within 30 days of the Regional Water Board's action to the following address:

State Water Resources Control Board
Office of Chief Counsel
P.O. Box 100, 1001 I Street
Sacramento, CA 95812-0100

E. Information and Copying

The Report of Waste Discharge (RWD), related documents, tentative effluent limitations and special provisions, comments received, and other information are on file and may be inspected at the address above at any time between 8:30 a.m. and 4:45 p.m., Monday through Friday. Copying of documents may be arranged through the Regional Water Board by calling (951) 782-4130.

F. Register of Interested Persons

Any person interested in being placed on the mailing list for information regarding the WDRs and NPDES permit should contact the Regional Water Board, reference this facility, and provide a name, address, and phone number.

G. Additional Information

Requests for additional information or questions regarding this Order should be directed to J. Shami at (951) 782-3288.

ATTACHMENT G – MINIMUM LEVELS

MINIMUM LEVELS IN PPB (µg/l)

| Table 1 - VOLATILE SUBSTANCES ¹ | GC | GCMS |
|---|-----|------|
| Acrolein | 2.0 | 5 |
| Acrylonitrile | 2.0 | 2 |
| Benzene | 0.5 | 2 |
| Bromoform | 0.5 | 2 |
| Carbon Tetrachloride | 0.5 | 2 |
| Chlorobenzene | 0.5 | 2 |
| Chlorodibromomethane | 0.5 | 2 |
| Chloroethane | 0.5 | 2 |
| Chloroform | 0.5 | 2 |
| Dichlorobromomethane | 0.5 | 2 |
| 1,1 Dichloroethane | 0.5 | 1 |
| 1,2 Dichloroethane | 0.5 | 2 |
| 1,1 Dichloroethylene | 0.5 | 2 |
| 1,2 Dichloropropane | 0.5 | 1 |
| 1,3 Dichloropropylene (volatile) | 0.5 | 2 |
| Ethylbenzene | 0.5 | 2 |
| Methyl Bromide (<i>Bromomethane</i>) | 1.0 | 2 |
| Methyl Chloride (<i>Chloromethane</i>) | 0.5 | 2 |
| Methylene Chloride (<i>Dichloromethane</i>) | 0.5 | 2 |
| 1,1,2,2 Tetrachloroethane | 0.5 | 1 |
| Tetrachloroethylene | 0.5 | 2 |
| Toluene | 0.5 | 2 |
| trans-1,2 Dichloroethylene | 0.5 | 1 |
| 1,1,1 Trichloroethane | 0.5 | 2 |
| 1,1,2 Trichloroethane | 0.5 | 2 |
| Trichloroethylene | 0.5 | 2 |
| Vinyl Chloride | 0.5 | 2 |
| 1,2 Dichlorobenzene (volatile) | 0.5 | 2 |
| 1,3 Dichlorobenzene (volatile) | 0.5 | 2 |
| 1,4 Dichlorobenzene (volatile) | 0.5 | 2 |

SELECTION AND USE OF APPROPRIATE ML VALUE:

ML Selection: When there is more than one ML value for a given substance, the discharger may select any one of those ML values, and their associated analytical methods, listed herein that are below the calculated effluent limitation for compliance determination. If no ML value is below the effluent limitation, then the discharger shall select the lowest ML value, and its associated analytical method, listed herein.

ML Usage: The ML value listed herein represents the lowest quantifiable concentration in a sample based on the proper application of all method-based analytical procedures and the absence of any matrix interferences. Assuming that all method-specific analytical steps are followed, the ML value will also represent, after the appropriate application of method-specific factors, the lowest standard in the calibration curve for that specific analytical technique. Common analytical practices sometimes require different treatment of the sample relative to calibration standards.

Note: chemical names in parenthesis and italicized is another name for the constituent.

¹ The normal method-specific factor for these substances is 1, therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

MINIMUM LEVELS IN PPB (µg/l)

| Table 2 – Semi-Volatile Substances ² | GC | GCMS | LC |
|---|----|------|------|
| 2-Chloroethyl vinyl ether | 1 | 1 | |
| 2 Chlorophenol | 2 | 5 | |
| 2,4 Dichlorophenol | 1 | 5 | |
| 2,4 Dimethylphenol | 1 | 2 | |
| 4,6 Dinitro-2-methylphenol | 10 | 5 | |
| 2,4 Dinitrophenol | 5 | 5 | |
| 2- Nitrophenol | | 10 | |
| 4- Nitrophenol | 5 | 10 | |
| 4 Chloro-3-methylphenol | 5 | 1 | |
| 2,4,6 Trichlorophenol | 10 | 10 | |
| Acenaphthene | 1 | 1 | 0.5 |
| Acenaphthylene | | 10 | 0.2 |
| Anthracene | | 10 | 2 |
| Benzidine | | 5 | |
| Benzo (a) Anthracene (1,2 Benzanthracene) | 10 | 5 | |
| Benzo(a) pyrene (3,4 Benzopyrene) | | 10 | 2 |
| Benzo (b) Flouranthene (3,4 Benzofluoranthene) | | 10 | 10 |
| Benzo(g,h,i)perylene | | 5 | 0.1 |
| Benzo(k)fluoranthene | | 10 | 2 |
| bis 2-(1-Chloroethoxyl) methane | | 5 | |
| bis(2-chloroethyl) ether | 10 | 1 | |
| bis(2-Chloroisopropyl) ether | 10 | 2 | |
| bis(2-Ethylhexyl) phthalate | 10 | 5 | |
| 4-Bromophenyl phenyl ether | 10 | 5 | |
| Butyl benzyl phthalate | 10 | 10 | |
| 2-Chloronaphthalene | | 10 | |
| 4-Chlorophenyl phenyl ether | | 5 | |
| Chrysene | | 10 | 5 |
| Dibenzo(a,h)-anthracene | | 10 | 0.1 |
| 1,2 Dichlorobenzene (semivolatile) | 2 | 2 | |
| 1,3 Dichlorobenzene (semivolatile) | 2 | 1 | |
| 1,4 Dichlorobenzene (semivolatile) | 2 | 1 | |
| 3,3' Dichlorobenzidine | | 5 | |
| Diethyl phthalate | 10 | 2 | |
| Dimethyl phthalate | 10 | 2 | |
| di-n-Butyl phthalate | | 10 | |
| 2,4 Dinitrotoluene | 10 | 5 | |
| 2,6 Dinitrotoluene | | 5 | |
| di-n-Octyl phthalate | | 10 | |
| 1,2 Diphenylhydrazine | | 1 | |
| Fluoranthene | 10 | 1 | 0.05 |
| Fluorene | | 10 | 0.1 |
| Hexachloro-cyclopentadiene | 5 | 5 | |
| 1,2,4 Trichlorobenzene | 1 | 5 | |

MINIMUM LEVELS IN PPB (µg/l)

| Table 2 - SEMI-VOLATILE SUBSTANCES ² | GC | GCMS | LC | COLOR |
|---|----|------|------|-------|
| Pentachlorophenol | 1 | 5 | | |
| Phenol ³ | 1 | 1 | | 50 |
| Hexachlorobenzene | 5 | 1 | | |
| Hexachlorobutadiene | 5 | 1 | | |
| Hexachloroethane | 5 | 1 | | |
| Indeno(1,2,3,cd)-pyrene | | 10 | 0.05 | |
| Isophorone | 10 | 1 | | |
| Naphthalene | 10 | 1 | 0.2 | |
| Nitrobenzene | 10 | 1 | | |
| N-Nitroso-dimethyl amine | 10 | 5 | | |
| N-Nitroso -di n-propyl amine | 10 | 5 | | |
| N-Nitroso diphenyl amine | 10 | 1 | | |
| Phenanthrene | | 5 | 0.05 | |
| Pyrene | | 10 | 0.05 | |

| Table 3 – INORGANICS ⁴ | FAA | GFAA | ICP | ICPMS | SPGF AA | HYDRIDE | CVAA | COLOR | DCP |
|-----------------------------------|-----|------|-----|-------|---------|---------|------|-------|-------|
| Antimony | 10 | 5 | 50 | 0.5 | 5 | 0.5 | | | 1000 |
| Arsenic | | 2 | 10 | 2 | 2 | 1 | | 20 | 1000 |
| Beryllium | 20 | 0.5 | 2 | 0.5 | 1 | | | | 1000 |
| Cadmium | 10 | 0.5 | 10 | 0.25 | 0.5 | | | | 1000 |
| Chromium (total) | 50 | 2 | 10 | 0.5 | 1 | | | | 1000 |
| Chromium VI | 5 | | | | | | | 10 | |
| Copper | | 5 | 10 | 0.5 | 2 | | | | |
| Lead | 20 | 5 | 5 | 0.5 | 2 | | | | 10000 |
| Mercury | | | | 0.5 | | | 0.2 | | |
| Nickel | 50 | 5 | 20 | 1 | 5 | | | | 1000 |
| Selenium | | 5 | | 2 | 5 | 1 | | | |
| Silver | 10 | 1 | 10 | 0.25 | 2 | | | | 1000 |
| Thallium | 10 | 2 | 10 | 1 | 5 | | | | 1000 |
| Zinc | 20 | | 20 | 1 | 10 | | | | 1000 |
| Cyanide | | | | | | | | 5 | |

² With the exception of phenol by colorimetric technique, the normal method-specific factor for these substances is 1000, therefore, the lowest standards concentration in the calibration curve is equal to the above ML value for each substance multiplied by 1000.

³ Phenol by colorimetric technique has a factor of 1

⁴ The normal method-specific factor for these substances is 1, therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

MINIMUM LEVELS IN PPB (µg/l)

| Table 4 - PESTICIDES – PCBs ⁵ | GC |
|--|-------|
| Aldrin | 0.005 |
| alpha-BHC (<i>a</i> -Hexachloro-cyclohexane) | 0.01 |
| beta-BHC (<i>b</i> -Hexachloro-cyclohexane) | 0.005 |
| Gamma-BHC (<i>Lindane</i> ; <i>g</i> -Hexachloro-cyclohexane) | 0.02 |
| Delta-BHC (<i>d</i> -Hexachloro-cyclohexane) | 0.005 |
| Chlordane | 0.1 |
| 4,4'-DDT | 0.01 |
| 4,4'-DDE | 0.05 |
| 4,4'-DDD | 0.05 |
| Dieldrin | 0.01 |
| Alpha-Endosulfan | 0.02 |
| Beta-Endosulfan | 0.01 |
| Endosulfan Sulfate | 0.05 |
| Endrin | 0.01 |
| Endrin Aldehyde | 0.01 |
| Heptachlor | 0.01 |
| Heptachlor Epoxide | 0.01 |
| PCB 1016 | 0.5 |
| PCB 1221 | 0.5 |
| PCB 1232 | 0.5 |
| PCB 1242 | 0.5 |
| PCB 1248 | 0.5 |
| PCB 1254 | 0.5 |
| PCB 1260 | 0.5 |
| Toxaphene | 0.5 |

Techniques:

GC - Gas Chromatography

GCMS - Gas Chromatography/Mass Spectrometry

HRGCMS - High Resolution Gas Chromatography/Mass Spectrometry (i.e., EPA 1613, 1624, or 1625)

LC - High Pressure Liquid Chromatography

FAA - Flame Atomic Absorption

GFAA - Graphite Furnace Atomic Absorption

HYDRIDE - Gaseous Hydride Atomic Absorption

CVAA - Cold Vapor Atomic Absorption

ICP - Inductively Coupled Plasma

ICPMS - Inductively Coupled Plasma/Mass Spectrometry

SPGFAA - Stabilized Platform Graphite Furnace Atomic Absorption (i.e., EPA 200.9)

DCP - Direct Current Plasma

COLOR – Colorimetric

⁵ The normal method-specific factor for these substances is 100, therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance multiplied by 100.

ATTACHMENT H – EPA PRIORITY POLLUTANT LIST

| CTR Number | Parameter | CAS Number | Suggested Analytical Methods |
|------------|----------------------------|------------|------------------------------|
| 1 | Antimony | 7440360 | EPA 6020/200.8 |
| 2 | Arsenic | 7440382 | EPA 1632 |
| 3 | Beryllium | 7440417 | EPA 6020/200.8 |
| 4 | Cadmium | 7440439 | EPA 1638/200.8 |
| 5a | Chromium (III) | 16065831 | EPA 6020/200.8 |
| 5a | Chromium (VI) | 18540299 | EPA 7199/1636 |
| 6 | Copper | 7440508 | EPA 6020/200.8 |
| 7 | Lead | 7439921 | EPA 1638 |
| 8 | Mercury | 7439976 | EPA 1669/1631 |
| 9 | Nickel | 7440020 | EPA 6020/200.8 |
| 10 | Selenium | 7782492 | EPA 6020/200.8 |
| 11 | Silver | 7440224 | EPA 6020/200.8 |
| 12 | Thallium | 7440280 | EPA 6020/200.8 |
| 13 | Zinc | 7440666 | EPA 6020/200.8 |
| 14 | Cyanide | 57125 | EPA 9012A |
| 15 | Asbestos | 1332214 | EPA/600/R-93/116(PCM) |
| 16 | 2,3,7,8-TCDD | 1746016 | EPA 8290 (HRGC) MS |
| 17 | Acrolein | 107028 | EPA 8260B |
| 18 | Acrylonitrile | 107131 | EPA 8260B |
| 19 | Benzene | 71432 | EPA 8260B |
| 20 | Bromoform | 75252 | EPA 8260B |
| 21 | Carbon Tetrachloride | 56235 | EPA 8260B |
| 22 | Chlorobenzene | 108907 | EPA 8260B |
| 23 | Chlorodibromomethane | 124481 | EPA 8260B |
| 24 | Chloroethane | 75003 | EPA 8260B |
| 25 | 2-Chloroethylvinyl Ether | 110758 | EPA 8260B |
| 26 | Chloroform | 67663 | EPA 8260B |
| 27 | Dichlorobromomethane | 75274 | EPA 8260B |
| 28 | 1,1-Dichloroethane | 75343 | EPA 8260B |
| 29 | 1,2-Dichloroethane | 107062 | EPA 8260B |
| 30 | 1,1-Dichloroethylene | 75354 | EPA 8260B |
| 31 | 1,2-Dichloropropane | 78875 | EPA 8260B |
| 32 | 1,3-Dichloropropylene | 542756 | EPA 8260B |
| 33 | Ethylbenzene | 100414 | EPA 8260B |
| 34 | Methyl Bromide | 74839 | EPA 8260B |
| 35 | Methyl Chloride | 74873 | EPA 8260B |
| 36 | Methylene Chloride | 75092 | EPA 8260B |
| 37 | 1,1,2,2-Tetrachloroethane | 79345 | EPA 8260B |
| 38 | Tetrachloroethylene | 127184 | EPA 8260B |
| 39 | Toluene | 108883 | EPA 8260B |
| 40 | 1,2-Trans-Dichloroethylene | 156605 | EPA 8260B |

| CTR Number | Parameter | CAS Number | Suggested Analytical Methods |
|------------|-----------------------------|------------|------------------------------|
| 41 | 1,1,1-Trichloroethane | 71556 | EPA 8260B |
| 42 | 1,1,2-Trichloroethane | 79005 | EPA 8260B |
| 43 | Trichloroethylene | 79016 | EPA 8260B |
| 44 | Vinyl Chloride | 75014 | EPA 8260B |
| 45 | 2-Chlorophenol | 95578 | EPA 8270C |
| 46 | 2,4-Dichlorophenol | 120832 | EPA 8270C |
| 47 | 2,4-Dimethylphenol | 105679 | EPA 8270C |
| 48 | 2-Methyl-4,6-Dinitrophenol | 534521 | EPA 8270C |
| 49 | 2,4-Dinitrophenol | 51285 | EPA 8270C |
| 50 | 2-Nitrophenol | 88755 | EPA 8270C |
| 51 | 4-Nitrophenol | 100027 | EPA 8270C |
| 52 | 3-Methyl-4-Chlorophenol | 59507 | EPA 8270C |
| 53 | Pentachlorophenol | 87865 | EPA 8270C |
| 54 | Phenol | 108952 | EPA 8270C |
| 55 | 2,4,6-Trichlorophenol | 88062 | EPA 8270C |
| 56 | Acenaphthene | 83329 | EPA 8270C |
| 57 | Acenaphthylene | 208968 | EPA 8270C |
| 58 | Anthracene | 120127 | EPA 8270C |
| 59 | Benzidine | 92875 | EPA 8270C |
| 60 | Benzo(a)Anthracene | 56553 | EPA 8270C |
| 61 | Benzo(a)Pyrene | 50328 | EPA 8270C |
| 62 | Benzo(b)Fluoranthene | 205992 | EPA 8270C |
| 63 | Benzo(ghi)Perylene | 191242 | EPA 8270C |
| 64 | Benzo(k)Fluoranthene | 207089 | EPA 8270C |
| 65 | Bis(2-Chloroethoxy)Methane | 111911 | EPA 8270C |
| 66 | Bis(2-Chloroethyl)Ether | 111444 | EPA 8270C |
| 67 | Bis(2-Chloroisopropyl)Ether | 108601 | EPA 8270C |
| 68 | Bis(2-Ethylhexyl)Phthalate | 117817 | EPA 8270C |
| 69 | 4-Bromophenyl Phenyl Ether | 101553 | EPA 8270C |
| 70 | Butylbenzyl Phthalate | 85687 | EPA 8270C |
| 71 | 2-Chloronaphthalene | 91587 | EPA 8270C |
| 72 | 4-Chlorophenyl Phenyl Ether | 7005723 | EPA 8270C |
| 73 | Chrysene | 218019 | EPA 8270C |
| 74 | Dibenzo(a,h)Anthracene | 53703 | EPA 8270C |
| 75 | 1,2-Dichlorobenzene | 95501 | EPA 8260B |
| 76 | 1,3-Dichlorobenzene | 541731 | EPA 8260B |
| 77 | 1,4-Dichlorobenzene | 106467 | EPA 8260B |
| 78 | 3,3'-Dichlorobenzidine | 91941 | EPA 8270C |
| 79 | Diethyl Phthalate | 84662 | EPA 8270C |
| 80 | Dimethyl Phthalate | 131113 | EPA 8270C |
| 81 | Di-n-Butyl Phthalate | 84742 | EPA 8270C |
| 82 | 2,4-Dinitrotoluene | 121142 | EPA 8270C |
| 83 | 2,6-Dinitrotoluene | 606202 | EPA 8270C |
| 84 | Di-n-Octyl Phthalate | 117840 | EPA 8270C |
| 85 | 1,2-Diphenylhydrazine | 122667 | EPA 8270C |
| 86 | Fluoranthene | 206440 | EPA 8270C |
| 87 | Fluorene | 86737 | EPA 8270C |

| CTR Number | Parameter | CAS Number | Suggested Analytical Methods |
|-----------------------|---------------------------|-----------------------|---|
| 88 | Hexachlorobenzene | 118741 | EPA 8260B |
| 89 | Hexachlorobutadiene | 87863 | EPA 8260B |
| 90 | Hexachlorocyclopentadiene | 77474 | EPA 8270C |
| 91 | Hexachloroethane | 67721 | EPA 8260B |
| 92 | Indeno(1,2,3-cd)Pyrene | 193395 | EPA 8270C |
| 93 | Isophorone | 78591 | EPA 8270C |
| 94 | Naphthalene | 91203 | EPA 8260B |
| 95 | Nitrobenzene | 98953 | EPA 8270C |
| 96 | N-Nitrosodimethylamine | 62759 | EPA 8270C |
| 97 | N-Nitrosodi-n-Propylamine | 621647 | EPA 8270C |
| 98 | N-Nitrosodiphenylamine | 86306 | EPA 8270C |
| 99 | Phenanthrene | 85018 | EPA 8270C |
| 100 | Pyrene | 129000 | EPA 8270C |
| 101 | 1,2,4-Trichlorobenzene | 120821 | EPA 8260B |
| 102 | Aldrin | 309002 | EPA 8081A |
| 103 | alpha-BHC | 319846 | EPA 8081A |
| 104 | beta-BHC | 319857 | EPA 8081A |
| 105 | gamma-BHC | 58899 | EPA 8081A |
| 106 | delta-BHC | 319868 | EPA 8081A |
| 107 | Chlordane | 57749 | EPA 8081A |
| 108 | 4,4'-DDT | 50293 | EPA 8081A |
| 109 | 4,4'-DDE | 72559 | EPA 8081A |
| 110 | 4,4'-DDD | 72548 | EPA 8081A |
| 111 | Dieldrin | 60571 | EPA 8081A |
| 112 | alpha-Endosulfan | 959988 | EPA 8081A |
| 113 | beta-Endosulfan | 33213659 | EPA 8081A |
| 114 | Endosulfan Sulfate | 1031078 | EPA 8081A |
| 115 | Endrin | 72208 | EPA 8081A |
| 116 | Endrin Aldehyde | 7421934 | EPA 8081A |
| 117 | Heptachlor | 76448 | EPA 8081A |
| 118 | Heptachlor Epoxide | 1024573 | EPA 8081A |
| 119 | PCB-1016 | 12674112 | EPA 8082 |
| 120 | PCB-1221 | 11104282 | EPA 8082 |
| 121 | PCB-1232 | 11141165 | EPA 8082 |
| 122 | PCB-1242 | 53469219 | EPA 8082 |
| 123 | PCB-1248 | 12672296 | EPA 8082 |
| 124 | PCB-1254 | 11097691 | EPA 8082 |
| 125 | PCB-1260 | 11096825 | EPA 8082 |
| 126 | Toxaphene | 8001352 | EPA 8081A |

ATTACHMENT I – PRACTICAL QUANTITATION LEVELS FOR COMPLIANCE

| PRACTICAL QUANTITATION LEVELS FOR COMPLIANCE DETERMINATION | | |
|--|-------------|-------------------------------|
| Constituent | PQL µg/l | Analysis Method |
| 1 Arsenic | 7.5 | GF/AA |
| 2 Barium | 20.0 | ICP/GFAA |
| 3 Cadmium | 15.0 | ICP |
| 4 Chromium (VI) | 15.0 | ICP |
| 5 Cobalt | 10.0 | GF/AA |
| 6 Copper | 19.0 | GF/ICP |
| 7 Cyanide | 50.0 | 335.2/335.3 |
| 8 Iron | 100.0 | ICP |
| 9 Lead | 26.0 | GF/AA |
| 10 Manganese | 20.0 | ICP |
| 11 Mercury | 0.50 | CV/AA |
| 12 Nickel | 50.0 | ICP |
| 13 Selenium | 2.0 | EPA Method 1638, 1640 or 7742 |
| 14 Silver | 16.0 | ICP |
| 15 Zinc | 20.0 | ICP |
| 16 1,2 - Dichlorobenzene | 5.0 | 601/602/624 |
| 17 1,3 - Dichlorobenzene | 5.0 | 601 |
| 18 1,4 - Dichlorobenzene | 5.0 | 601 |
| 18 2,4 - Dichlorophenol | 10.0 | 604/625 |
| 20 4 - Chloro -3- methylphenol | 10.0 | 604/625 |
| 21 Aldrin | 0.04 | 608 |
| 22 Benzene | 1.0 | 602/624 |
| 23 Chlordane | 0.30 | 608 |
| 24 Chloroform | 5.0 | 601/624 |
| 25 DDT | 0.10 | 608 |
| 26 Dichloromethane | 5.0 | 601/624 |
| 27 Dieldrin | 0.10 | 608 |
| 28 Fluorantene | 10.0 | 610/625 |
| 29 Endosulfan | 0.50 | 608 |
| 30 Endrin | 0.10 | 608 |
| 31 Halomethanes | 5.0 | 601/624 |
| 32 Heptachlor | 0.03 | 608 |
| 33 Hepthachlor Epoxide | 0.05 | 608 |
| 34 Hexachlorobenzene | 10.0 | 625 |
| 35 Hexachlorocyclohexane | | |
| Alpha | 0.03 | 608 |
| Beta | 0.03 | 608 |
| Gamma | 0.03 | 608 |
| 36 PAH's | 10.0 | 610/625 |
| 37 PCB | 1.0 | 608 |
| 38 Pentachlorophenol | 10.0 | 604/625 |
| 39 Phenol | 10.0 | 604/625 |
| 40 TCDD Equivalent | 0.05 | 8280 |
| 41 Toluene | 1.0 | 602/625 |
| 42 Toxaphene | 2.0 | 608 |
| 43 Tributyltin | 0.02 | GC |
| 44 2,4,6-Trichlorophenol | 10.0 | 604/625 |

ATTACHMENT - J

STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS (SWPPP)

1. Implementation Schedule

The storm water pollution prevention plan (SWPPP) shall be updated and implemented in a timely manner, but in no case later than October 1, 2005.

2. Objectives

The SWPPP has two major objectives: (a) to identify and evaluate sources of pollutants associated with industrial activities that may affect the quality of storm water discharges and authorized non-storm water discharges from the facility; and (b) to identify and implement site-specific best management practices (BMPs) to reduce or prevent pollutants associated with industrial activities in storm water discharges and authorized non-storm water discharges. BMPs may include a variety of pollution prevention measures or other low-cost pollution control measures. They are generally categorized as non-structural BMPs (activity schedules, prohibitions of practices, maintenance procedures, and other low-cost measures) and as structural BMPs (treatment measures, run-off controls, over-head coverage). To achieve these objectives, dischargers should consider the five phase process for SWPPP development and implementation as shown in Table A, below).

The SWPPP requirements are designed to be sufficiently flexible to meet the various needs of the facility. SWPPP requirements that are not applicable to the facility should not be included in the SWPPP.

A facility's SWPPP is a written document that shall contain a compliance activity schedule, a description of industrial activities and pollutant sources, descriptions of BMPs, drawings, maps, and relevant copies or references of parts of other plans. The SWPPP shall be revised whenever appropriate and shall be readily available for review by facility employees or Regional Water Board inspectors.

3. Planning and Organization

a. Pollution Prevention Team

The SWPPP shall identify a specific individual or individuals and their positions within the facility organization as members of a storm water pollution prevention team responsible for developing the SWPPP, assisting the facility manager in SWPPP implementation and revision, and conducting all monitoring program activities required in the Stormwater monitoring program of Order No. R8-2005-0043. The SWPPP shall clearly identify the storm water pollution prevention related responsibilities, duties, and activities of each team member.

b. Review Other Requirements and Existing Facility Plans

The SWPPP may incorporate or reference the appropriate elements of other regulatory requirements. The discharger shall review all local, state, and federal requirements that impact, complement, or are consistent with the requirements of Order No. R8-2005-0043. The discharger shall identify any existing facility plans that contain storm water pollutant control measures or relate to the requirements of Order No. R8-2005-0043. As examples, dischargers whose facilities are subject to Federal Spill Prevention Control and Countermeasures' requirements should already have instituted a plan to control spills of certain hazardous materials. Similarly, the discharger whose facilities are subject to air quality related permits and regulations may already have evaluated industrial activities that generate dust or particulates.

4. Site Map

The SWPPP shall include a site map. The site map shall be provided on an 8-1/2 x 11 inch or larger sheet and include notes, legends, and other data as appropriate to ensure that the site map is clear and understandable. If necessary, the discharger may provide the required information on multiple site maps. The following information shall be included on the site map:

- a. The facility boundaries; the outline of all storm water drainage areas within the facility boundaries; portions of the drainage area impacted by run-on from surrounding areas; and direction of flow of each drainage area, on-site surface water bodies, and areas of soil erosion. The map shall also identify nearby water bodies (such as rivers, lakes, ponds) and municipal storm drain inlets where the facility's storm water discharges and authorized non-storm water discharges may be received.
- b. The location of the storm water collection and conveyance system, associated points of discharge, and direction of flow. Include any structural control measures that affect storm water discharges, authorized non-storm water discharges, and run-on. Examples of structural control measures are catch basins, berms, detention ponds, secondary containment, oil/water separators, diversion barriers, etc.
- c. An outline of all impervious areas of the facility, including paved areas, buildings, covered storage areas, or other roofed structures.
- d. Locations where materials are directly exposed to precipitation and the locations where significant spills or leaks identified in Section 6.a.(4)., below, have occurred.
- e. Areas of industrial activity. This shall include the locations of all storage areas and storage tanks, shipping and receiving areas, fueling areas, vehicle and equipment storage/maintenance areas, material handling and processing areas, waste treatment and disposal areas, dust or particulate generating areas, cleaning and rinsing areas, and other areas of industrial activity which are potential pollutant sources.

5. List of Significant Materials

The SWPPP shall include a list of significant materials handled and stored at the site. For each material on the list, describe the locations where the material is being stored, received, shipped, and handled, as well as the typical quantities and frequency. Materials shall include raw materials, intermediate products, final or finished products, recycled materials, and waste or disposed materials.

6. Description of Potential Pollutant Sources

- a. The SWPPP shall include a narrative description of the facility's industrial activities, as identified in Section 4.e., above, associated potential pollutant sources, and potential pollutants that could be discharged in storm water discharges or authorized non-storm water discharges. At a minimum, the following items related to a facility's industrial activities shall be considered:

(1) Industrial Processes

Describe each industrial process, the type, characteristics, and quantity of significant materials used in or resulting from the process, and a description of the processes (manufacturing or treatment), cleaning, rinsing, recycling, disposal, or other activities related to the process. Where applicable, areas protected by containment structures and the corresponding containment capacity shall be described.

(2) Material Handling and Storage Areas

Describe each handling and storage area, type, characteristics, and quantity of significant materials handled or stored, description of the shipping, receiving, and loading procedures, and the spill or leak prevention and response procedures. Where applicable, areas protected by containment structures and the corresponding containment capacity shall be described.

(3) Dust and Particulate Generating Activities

Describe all industrial activities that generate dust or particulates that may be deposited within the facility's boundaries and identify their discharge locations; the characteristics of dust and particulate pollutants; the approximate quantity of dust and particulate pollutants that may be deposited within the facility boundaries; and a description of the primary areas of the facility where dust and particulate pollutants would settle.

(4) Significant Spills and Leaks

Describe materials that have spilled or leaked in significant quantities in storm water discharges or non-storm water discharges. Include toxic chemicals (listed in 40 Code of Federal Regulations [CFR] Part 302) that have been discharged to storm water as reported on U.S. Environmental Protection Agency (U.S. EPA) Form R, and oil and hazardous substances in excess of reportable quantities (see 40 CFR, Parts 110, 117, and 302).

The description shall include the type, characteristics, and approximate quantity of the material spilled or leaked, the cleanup or remedial actions that have occurred or are planned, the approximate remaining quantity of materials that may be exposed to storm water or non-storm water discharges, and the preventative measures taken to ensure spills or leaks do not reoccur. Such list shall be updated as appropriate during the term of Order No. R8-2005-0043.

(5) Non-Storm Water Discharges

The discharger shall investigate the facility to identify all non-storm water discharges and their sources. As part of this investigation, all drains (inlets and outlets) shall be evaluated to identify whether they connect to the storm drain system.

All non-storm water discharges shall be described. This shall include the source, quantity, frequency, and characteristics of the non-storm water discharges and associated drainage area.

Non-storm water discharges that contain significant quantities of pollutants or that do not meet the conditions of Order No. R8-2005-0043 are prohibited. (Examples of prohibited non-storm water discharges are contact and non-contact cooling water, boiler blowdown, rinse water, wash water, etc.). The SWPPP must include BMPs to prevent or reduce contact of non-storm water discharges with significant materials or equipment.

(6) Soil Erosion

Describe the facility locations where soil erosion may occur as a result of industrial activity, storm water discharges associated with industrial activity, or authorized non-storm water discharges.

- b. The SWPPP shall include a summary of all areas of industrial activities, potential pollutant sources, and potential pollutants. This information should be summarized similar to Table B, below). The last column of Table B, "Control Practices", should be completed in accordance with Section 8., below.

7. Assessment of Potential Pollutant Sources

- a. The SWPPP shall include a narrative assessment of all industrial activities and potential pollutant sources as described in Section 6., above, to determine:
 - (1) Which areas of the facility are likely sources of pollutants in storm water discharges and authorized non-storm water discharges, and

- (2) Which pollutants are likely to be present in storm water discharges and authorized non-storm water discharges. The discharger shall consider and evaluate various factors when performing this assessment such as current storm water BMPs; quantities of significant materials handled, produced, stored, or disposed of; likelihood of exposure to storm water or authorized non-storm water discharges; history of spill or leaks; and run-on from outside sources.
- b. The discharger shall summarize the areas of the facility that are likely sources of pollutants and the corresponding pollutants that are likely to be present in storm water discharges and authorized non-storm water discharges.

The discharger is required to develop and implement additional BMPs as appropriate and necessary to prevent or reduce pollutants associated with each pollutant source. The BMPs will be narratively described in Section 8., below.

8. Storm Water Best Management Practices

The SWPPP shall include a narrative description of the storm water BMPs to be implemented at the facility for each potential pollutant and its source identified in the site assessment phase (Sections 6. and 7., above). The BMPs shall be developed and implemented to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Each pollutant and its source may require one or more BMPs. Some BMPs may be implemented for multiple pollutants and their sources, while other BMPs will be implemented for a very specific pollutant and its source.

The description of the BMPs shall identify the BMPs as (1) existing BMPs, (2) existing BMPs to be revised and implemented, or (3) new BMPs to be implemented. The description shall also include a discussion on the effectiveness of each BMP to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. The SWPPP shall provide a summary of all BMPs implemented for each pollutant source. This information should be summarized similar to Table B.

The discharger shall consider the following BMPs for implementation at the facility:

- a. Non-Structural BMPs: Non-structural BMPs generally consist of processes, prohibitions, procedures, schedule of activities, etc., that prevent pollutants associated with industrial activity from contacting with storm water discharges and authorized non-storm water discharges. They are considered low technology, cost-effective measures. The discharger should consider all possible non-structural BMPs options before considering additional structural BMPs (see Section 8.b., below). Below is a list of non-structural BMPs that should be considered:
 - (1) Good Housekeeping: Good housekeeping generally consist of practical procedures to maintain a clean and orderly facility.
 - (2) Preventive Maintenance: Preventive maintenance includes the regular inspection and maintenance of structural storm water controls (catch basins, oil/water separators, etc.) as well as other facility equipment and systems.

- (3) Spill Response: This includes spill clean-up procedures and necessary clean-up equipment based upon the quantities and locations of significant materials that may spill or leak.
 - (4) Material Handling and Storage: This includes all procedures to minimize the potential for spills and leaks and to minimize exposure of significant materials to storm water and authorized non-storm water discharges.
 - (5) Employee Training: This includes training of personnel who are responsible for (a) implementing activities identified in the SWPPP, (b) conducting inspections, sampling, and visual observations, and (c) managing storm water. Training should address topics such as spill response, good housekeeping, and material handling procedures, and actions necessary to implement all BMPs identified in the SWPPP. The SWPPP shall identify periodic dates for such training. Records shall be maintained of all training sessions held.
 - (6) Waste Handling/Recycling: This includes the procedures or processes to handle, store, or dispose of waste materials or recyclable materials.
 - (7) Record Keeping and Internal Reporting: This includes the procedures to ensure that all records of inspections, spills, maintenance activities, corrective actions, visual observations, etc., are developed, retained, and provided, as necessary, to the appropriate facility personnel.
 - (8) Erosion Control and Site Stabilization: This includes a description of all sediment and erosion control activities. This may include the planting and maintenance of vegetation, diversion of run-on and runoff, placement of sandbags, silt screens, or other sediment control devices, etc.
 - (9) Inspections: This includes, in addition to the preventative maintenance inspections identified above, an inspection schedule of all potential pollutant sources. Tracking and follow-up procedures shall be described to ensure adequate corrective actions are taken and SWPPPs are made.
 - (10) Quality Assurance: This includes the procedures to ensure that all elements of the SWPPP and Monitoring Program are adequately conducted.
- b. Structural BMPs: Where non-structural BMPs as identified in Section 8.a., above, are not effective, structural BMPs shall be considered. Structural BMPs generally consist of structural devices that reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Below is a list of structural BMPs that should be considered:
- (1) Overhead Coverage: This includes structures that provide horizontal coverage of materials, chemicals, and pollutant sources from contact with storm water and authorized non-storm water discharges.

- (2) Retention Ponds: This includes basins, ponds, surface impoundments, bermed areas, etc., that do not allow storm water to discharge from the facility.
- (3) Control Devices: This includes berms or other devices that channel or route run-on and runoff away from pollutant sources.
- (4) Secondary Containment Structures: This generally includes containment structures around storage tanks and other areas for the purpose of collecting any leaks or spills.
- (5) Treatment: This includes inlet controls, infiltration devices, oil/water separators, detention ponds, vegetative swales, etc., that reduce the pollutants in storm water discharges and authorized non-storm water discharges.

9. Annual Comprehensive Site Compliance Evaluation

The discharger shall conduct one comprehensive site compliance evaluation in each reporting period (July 1-June 30). Evaluations shall be conducted within 8-16 months of each other. The SWPPP shall be revised, as appropriate, and the revisions implemented within 90 days of the evaluation. Evaluations shall include the following:

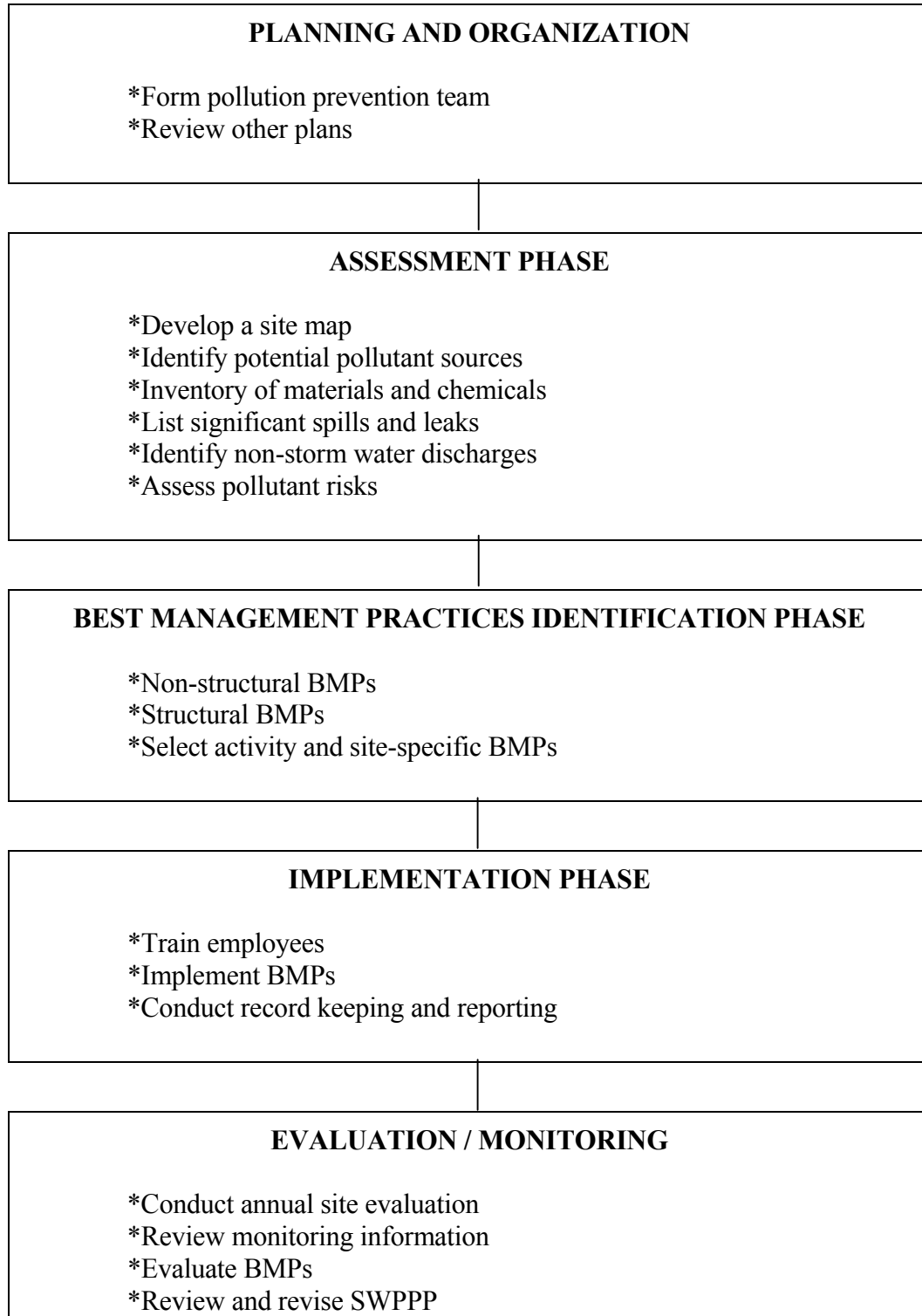
- a. A review of all visual observation records, inspection records, and sampling and analysis results.
- b. A visual inspection of all potential pollutant sources for evidence of, or the potential for, pollutants entering the drainage system.
- c. A review and evaluation of all BMPs (both structural and non-structural) to determine whether the BMPs are adequate, properly implemented and maintained, or whether additional BMPs are needed. A visual inspection of equipment needed to implement the SWPPP, such as spill response equipment, shall be included.
- d. An evaluation report that includes, (1) identification of personnel performing the evaluation, (2) the date(s) of the evaluation, (3) necessary SWPPP revisions, (4) schedule, as required in Section 10.e, below, for implementing SWPPP revisions, (5) any incidents of non-compliance and the corrective actions taken, and (6) a certification that the discharger is in compliance with Order No. R8-2005-0043. If the above certification cannot be provided, explain in the evaluation report why the discharger is not in compliance with this order. The evaluation report shall be submitted as part of the annual report, retained for at least five years, and signed and certified.

10. SWPPP General Requirements

- a. The SWPPP shall be retained on site and made available upon request by a representative of the Regional Water Board and/or local storm water management agency (local agency) which receives the storm water discharges.
- b. The Regional Water Board and/or local agency may notify the discharger when the SWPPP does not meet one or more of the minimum requirements of this section. As requested by the Regional Water Board and/or local agency, the discharger shall submit a SWPPP revision and implementation schedule that meets the minimum requirements of this section to the Regional Water Board and/or local agency that requested the SWPPP revisions. Within 14 days after implementing the required SWPPP revisions, the discharger shall provide written certification to the Regional Water Board and/or local agency that the revisions have been implemented.
- c. The SWPPP shall be revised, as appropriate, and implemented prior to changes in industrial activities which (1) may significantly increase the quantities of pollutants in storm water discharge, (2) cause a new area of industrial activity at the facility to be exposed to storm water, or (3) begin an industrial activity which would introduce a new pollutant source at the facility.
- d. The SWPPP shall be revised and implemented in a timely manner, but in no case more than 90 days after a discharger determines that the SWPPP is in violation of any requirement(s) of Order No. R8-2005-0043.
- e. When any part of the SWPPP is infeasible to implement by the deadlines specified in Order No. R8-2005-0043, due to proposed significant structural changes, the discharger shall submit a report to the Regional Water Board prior to the applicable deadline that (1) describes the portion of the SWPPP that is infeasible to implement by the deadline, (2) provides justification for a time extension, (3) provides a schedule for completing and implementing that portion of the SWPPP, and (4) describes the BMPs that will be implemented in the interim period to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Such reports are subject to Regional Water Board approval and/or modifications. The discharger shall provide written notification to the Regional Water Board within 14 days after the SWPPP revisions are implemented.
- f. The SWPPP shall be provided, upon request, to the Regional Water Board. The SWPPP is considered a report that shall be available to the public by the Regional Water Board under Section 308(b) of the Clean Water Act.

TABLE A

**FIVE PHASES FOR DEVELOPING AND IMPLEMENTING INDUSTRIAL
STORM WATER POLLUTION PREVENTION PLANS**



| TABLE B EXAMPLE ASSESSMENT OF POTENTIAL POLLUTION SOURCES AND CORRESPONDING BEST MANAGEMENT PRACTICES SUMMARY | | | | |
|--|----------|--|-----------|--|
| AREA | ACTIVITY | POLLUTANT SOURCE | POLLUTANT | BEST MANAGEMENT PRACTICES |
| Vehicle & equipment fueling | Fueling | Spills and leaks during delivery | Fuel oil | <ul style="list-style-type: none"> - Use spill and overflow protection - Minimize run-on of storm water into the fueling area - Cover fueling area - Use dry cleanup methods rather than hosing down area - Implement proper spill prevention control program - Implement adequate preventative maintenance program to prevent tank and line leaks <ul style="list-style-type: none"> - Inspect fueling areas regularly to detect problems before they occur - Train employees on proper fueling, cleanup, and spill response techniques. |
| | | Spills caused by topping off fuel oil | Fuel oil | |
| | | Hosing or washing down fuel area | Fuel oil | |
| | | Leaking storage tanks | Fuel oil | |
| | | Rainfall running off fueling areas, and rainfall running onto and off fueling area | Fuel oil | |

ATTACHMENT - K

STORMWATER MONITORING PROGRAM AND REPORTING REQUIREMENTS (SWMRP)

1. Implementation Schedule

The discharger shall continue to implement their existing Stormwater monitoring program and implement any necessary revisions to their Stormwater monitoring program in a timely manner, but in no case later than October 1, 2005. The discharger may use the monitoring results conducted in accordance with their existing Stormwater monitoring program to satisfy the pollutant/parameter reduction requirements in Section 5.c., below, and Sampling and Analysis Exemptions and Reduction Certifications in Section 10, below.

2. Objectives

The objectives of the monitoring program are to:

- a. Ensure that storm water discharges are in compliance with waste discharge requirements specified in Order No. R8-2005-0043.
- b. Ensure practices at the facility to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges are evaluated and revised to meet changing conditions.
- c. Aid in the implementation and revision of the SWPPP required by Attachment "J" Stormwater Pollution Prevention Plan of Order No. R8-2005-0043.
- d. Measure the effectiveness of best management practices (BMPs) to prevent or reduce pollutants in storm water discharges and authorized non-storm water discharges. Much of the information necessary to develop the monitoring program, such as discharge locations, drainage areas, pollutant sources, etc., should be found in the Storm Water Pollution Prevention Plan (SWPPP). The facility's monitoring program shall be a written, site-specific document that shall be revised whenever appropriate and be readily available for review by employees or Regional Water Board inspectors.

3. Non-Storm Water Discharge Visual Observations

- a. The discharger shall visually observe all drainage areas within their facility for the presence of unauthorized non-storm water discharges;
- b. The discharger shall visually observe the facility's authorized non-storm water discharges and their sources;

- c. The visual observations required above shall occur quarterly, during daylight hours, on days with no storm water discharges, and during scheduled facility operating hours⁶. Quarterly visual observations shall be conducted in each of the following periods: January-March, April-June, July-September, and October-December. The discharger shall conduct quarterly visual observations within 6-18 weeks of each other.
- d. Visual observations shall document the presence of any discolorations, stains, odors, floating materials, etc., as well as the source of any discharge. Records shall be maintained of the visual observation dates, locations observed, observations, and response taken to eliminate unauthorized non-storm water discharges and to reduce or prevent pollutants from contacting non-storm water discharges. The SWPPP shall be revised, as necessary, and implemented in accordance with Attachment "J" Stormwater Pollution Prevention Plan of Order No. R8-2005-0043.

4. Storm Water Discharge Visual Observations

- a. With the exception of those facilities described in Section 4.d., below, the discharger shall visually observe storm water discharges from one storm event per month during the wet season (October 1-May 30). These visual observations shall occur during the first hour of discharge and at all discharge locations. Visual observations of stored or contained storm water shall occur at the time of release.
- b. Visual observations are only required of storm water discharges that occur during daylight hours that are preceded by at least three (3) working days⁷ without storm water discharges and that occur during scheduled facility operating hours.
- c. Visual observations shall document the presence of any floating and suspended material, oil and grease, discolorations, turbidity, odor, and source of any pollutants. Records shall be maintained of observation dates, locations observed, observations, and response taken to reduce or prevent pollutants in storm water discharges. The SWPPP shall be revised, as necessary, and implemented in accordance with Attachment "J" Stormwater Pollution Prevention Plan of Order No. R8-2005-0043.
- d. The discharger with storm water containment facilities shall conduct monthly inspections of their containment areas to detect leaks and ensure maintenance of adequate freeboard. Records shall be maintained of the inspection dates, observations, and any response taken to eliminate leaks and to maintain adequate freeboard.

⁶ "Scheduled facility operating hours" are the time periods when the facility is staffed to conduct any function related to industrial activity, but excluding time periods where only routine maintenance, emergency response, security, and/or janitorial services are performed.

⁷ Three (3) working days may be separated by non-working days such as weekends and holidays provided that no storm water discharges occur during the three (3) working days and the non-working days.

5. Sampling and Analysis

- a. The discharger shall collect storm water samples during the first hour of discharge from (1) the first storm event of the wet season, and (2) at least one other storm event in the wet season. All storm water discharge locations shall be sampled. Sampling of stored or contained storm water shall occur at the time the stored or contained storm water is released. The discharger that does not collect samples from the first storm event of the wet season are still required to collect samples from two other storm events of the wet season and shall explain in the "Annual Stormwater Report" (see Section 12, below) why the first storm event was not sampled.
- b. Sample collection is only required of storm water discharges that occur during scheduled facility operating hours and that are preceded by at least (3) three working days without storm water discharge.
- c. The samples shall be analyzed for:
 - (1) Total suspended solids (TSS) pH, specific conductance, and total organic carbon (TOC). Oil and grease (O&G) may be substituted for TOC;
 - (2) Toxic chemicals and other pollutants that are likely to be present in storm water discharges in significant quantities. If these pollutants are not detected in significant quantities after two consecutive sampling events, the discharger may eliminate the pollutant from future sample analysis until the pollutant is likely to be present again;
 - (3) The discharger is not required to analyze a parameter when either of the two following conditions are met: (a) the parameter has not been detected in significant quantities from the last two consecutive sampling events, or (b) the parameter is not likely to be present in storm water discharges and authorized non-storm water discharges in significant quantities based upon the discharger's evaluation of the facilities industrial activities, potential pollutant sources, and SWPPP; and
 - (4) Other parameters as required by the Regional Water Board.

6. Sample Storm Water Discharge Locations

- a. The discharger shall visually observe and collect samples of storm water discharges from all drainage areas that represent the quality and quantity of the facility's storm water discharges from the storm event.

- b. If the facility's storm water discharges are commingled with run-on from surrounding areas, the discharger should identify other visual observation and sample collection locations that have not been commingled by run-on and that represent the quality and quantity of the facility's storm water discharges from the storm event.
- c. If visual observation and sample collection locations are difficult to observe or sample (e.g., sheet flow, submerged outfalls), the discharger shall identify and collect samples from other locations that represent the quality and quantity of the facility's storm water discharges from the storm event.
- d. The discharger that determines that the industrial activities and BMPs within two or more drainage areas are substantially identical may either (1) collect samples from a reduced number of substantially identical drainage areas, or (2) collect samples from each substantially identical drainage area and analyze a combined sample from each substantially identical drainage area. The discharger must document such a determination in the annual Stormwater report.

7. Visual Observation and Sample Collection Exceptions

The discharger is required to be prepared to collect samples and conduct visual observations at the beginning of the wet season (October 1) and throughout the wet season until the minimum requirements of Sections 4. and 5., above, are completed with the following exceptions:

- a. The discharger is not required to collect a sample and conduct visual observations in accordance with Section 4 and Section 5, above, due to dangerous weather conditions, such as flooding, electrical storm, etc., when storm water discharges begin after scheduled facility operating hours or when storm water discharges are not preceded by three working days without discharge. Visual observations are only required during daylight hours. The discharger that does not collect the required samples or visual observations during a wet season due to these exceptions shall include an explanation in the "Annual Stormwater Report" why the sampling or visual observations could not be conducted.
- b. The discharger may conduct visual observations and sample collection more than one hour after discharge begins if the discharger determines that the objectives of this section will be better satisfied. The discharger shall include an explanation in the "Annual Stormwater Report" why the visual observations and sample collection should be conducted after the first hour of discharge.

8. Alternative Monitoring Procedures

The discharger may propose an alternative monitoring program that meets Section 2, above, monitoring program objectives for approval by the Regional Water Board's Executive Officer. The discharger shall continue to comply with the monitoring requirements of this section and may not implement an alternative monitoring plan until the alternative monitoring plan is approved by the Regional Water Board's Executive Officer. Alternative monitoring plans are subject to modification by the Regional Water Board's Executive Officer.

9. Monitoring Methods

- a. The discharger shall explain how the facility's monitoring program will satisfy the monitoring program objectives of Section 2., above. This shall include:
 - (1) Rationale and description of the visual observation methods, location, and frequency;
 - (2) Rationale and description of the sampling methods, location, and frequency; and
 - (3) Identification of the analytical methods and corresponding method detection limits used to detect pollutants in storm water discharges. This shall include justification that the method detection limits are adequate to satisfy the objectives of the monitoring program.
- b. All sampling and sample preservation shall be in accordance with the current edition of "Standard Methods for the Examination of Water and Wastewater" (American Public Health Association). All monitoring instruments and equipment (including the discharger's own field instruments for measuring pH and Electro-conductivity) shall be calibrated and maintained in accordance with manufacturers' specifications to ensure accurate measurements. All laboratory analyses must be conducted according to test procedures under 40 CFR Part 136, unless other test procedures have been specified in Order No. R8-2005-0043 or by the Regional Water Board's Executive Officer. All metals shall be reported as total recoverable metals or unless otherwise specified in Order No. R8-2005-0043. With the exception of analysis conducted by the discharger, all laboratory analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services. The discharger may conduct their own sample analyses if the discharger has sufficient capability (qualified employees, laboratory equipment, etc.) to adequately perform the test procedures.

10. Sampling and Analysis Exemptions and Reductions

A discharger who qualifies for sampling and analysis exemptions, as described below in Section 10.a.(1) or who qualifies for reduced sampling and analysis, as described below in Section 10.b., must submit the appropriate certifications and required documentation to the Regional Water Board prior to the wet season (October 1) and certify as part of the annual Stormwater report submittal. A discharger that qualifies for either the Regional Water Board or local agency certification programs, as described below in Section 10.a.(2) and (3), shall submit certification and documentation in accordance with the requirements of those programs. The discharger who provides certification(s) in accordance with this section are still required to comply with all other monitoring program and reporting requirements. The discharger shall prepare and submit their certification(s) using forms and instructions provided by the State Water Board, Regional Water Board, or local agency or shall submit their information on a form that contains equivalent information. The discharger whose facility no longer meets the certification conditions must notify the Regional Water Board's Executive Officer (and local agency) within 30 days and immediately comply with Section 5., Sampling and Analysis requirements. Should a Regional Water Board (or local agency) determine that a certification does not meet the conditions set forth below, the discharger must immediately comply with the Section 5., Sampling and Analysis requirements.

a. Sampling and Analysis Exemptions

A discharger is not required to collect and analyze samples in accordance with Section 5., above, if the discharger meets all of the conditions of one of the following certification programs:

(1) No Exposure Certification (NEC)

This exemption is designed primarily for those facilities where all industrial activities are conducted inside buildings and where all materials stored and handled are not exposed to storm water. To qualify for this exemption, the discharger must certify that their facilities meet all of the following conditions:

- (a) All prohibited non-storm water discharges have been eliminated or otherwise permitted.
- (b) All authorized non-storm water discharges have been identified and addressed in the SWPPP.
- (c) All areas of past exposure have been inspected and cleaned, as appropriate.
- (d) All significant materials related to industrial activity (including waste materials) are not exposed to storm water or authorized non-storm water discharges.
- (e) All industrial activities and industrial equipment are not exposed to storm water or authorized non-storm water discharges.

- (f) There is no exposure of storm water to significant materials associated with industrial activity through other direct or indirect pathways such as from industrial activities that generate dust and particulates.
- (g) There is periodic re-evaluation of the facility to ensure conditions (a), (b), (d), (e), and (f) above are continuously met. At a minimum, re-evaluation shall be conducted once a year.

(2) Regional Water Board Certification Programs

The Regional Water Board may grant an exemption to the Section 5. Sampling and Analysis requirements if it determines a discharger has met the conditions set forth in a Regional Water Board certification program. Regional Water Board certification programs may include conditions to (a) exempt the discharger whose facilities infrequently discharge storm water to waters of the United States, and (b) exempt the discharger that demonstrate compliance with the terms and conditions of Order No. R8-2005-0043.

(3) Local Agency Certifications

A local agency may develop a local agency certification program. Such programs must be approved by the Regional Water Board. An approved local agency program may either grant an exemption from Section 5. Sampling and Analysis requirements or reduce the frequency of sampling if it determines that a discharger has demonstrated compliance with the terms and conditions of the Industrial Activities Storm Water General Permit Order No. 97-03-DWQ which was adopted by the State Water Resources Control Board on April 17, 1997.

b. Sampling and Analysis Reduction

- (1) A discharger may reduce the number of sampling events required to be sampled for the remaining term of Order No. R8-2005-0043 if the discharger provides certification that the following conditions have been met:
 - (a) The discharger has collected and analyzed samples from a minimum of six storm events from all required drainage areas;
 - (b) All prohibited non-storm water discharges have been eliminated or otherwise permitted;
 - (c) The discharger demonstrates compliance with the terms and conditions of the Order No. R8-2005-0043 for the previous two years (i.e., completed Annual Stormwater Reports, performed visual observations, implemented appropriate BMPs, etc.);

- (d) The discharger demonstrates that the facility's storm water discharges and authorized non-storm water discharges do not contain significant quantities of pollutants; and
 - (e) Conditions (b), (c), and (d) above are expected to remain in effect for a minimum of one year after filing the certification.
- (2) Unless otherwise instructed by the Regional Water Board, the discharger shall collect and analyze samples from two additional storm events during the remaining term of Order No. R8-2005-0043 in accordance with Table A, below. The discharger shall collect samples of the first storm event of the wet season. The discharger that does not collect samples from the first storm event of the wet season shall collect samples from another storm event during the same wet season. The discharger that does not collect a sample in a required wet season shall collect the sample from another storm event in the next wet season. The discharger shall explain in the "Annual Stormwater Report" why the first storm event of a wet season was not sampled or a sample was not taken from any storm event in accordance with the Table A schedule, below.

| Table A REDUCED MONITORING SAMPLING SCHEDULE | | |
|---|--|---------------------------|
| Discharger Filing Sampling Reduction Certification By | Samples Shall be Collected and Analyzed in these wet seasons | |
| | Sample 1 | Sample 2 |
| Sept. 1, 2005 | Oct. 1, 2006-May 31, 2007 | Oct. 1, 2008-May 31, 2009 |

11. Records

Records of all storm water monitoring information and copies of all reports (including the Annual Stormwater Reports) required by Order No. R8-2005-0043 shall be retained for a period of at least five years. These records shall include:

- a. The date, place, and time of site inspections, sampling, visual observations, and/or measurements;
- b. The individual(s) who performed the site inspections, sampling, visual observations, and or measurements;
- c. Flow measurements or estimates;
- d. The date and approximate time of analyses;

- e. The individual(s) who performed the analyses;
- f. Analytical results, method detection limits, and the analytical techniques or methods used;
- g. Quality assurance/quality control records and results;
- h. Non-storm water discharge inspections and visual observations and storm water discharge visual observation records (see Sections 3. and 4., above);
- i. Visual observation and sample collection exception records (see Section 5.a, 6.d, 7, and 10.b.(2), above);
- j. All calibration and maintenance records of on-site instruments used;
- k. All Sampling and Analysis Exemption and Reduction certifications and supporting documentation (see Section 10);
- l. The records of any corrective actions and follow-up activities that resulted from the visual observations.

12. Annual Report

The discharger shall submit an Annual Stormwater Report by January 1 of each year to the Executive Officer of the Regional Water Board and to the local agency (if requested). The report shall include a summary of visual observations and sampling results, an evaluation of the visual observation and sampling and analysis results, laboratory reports, the Annual Comprehensive Site Compliance Evaluation Report required in Section 9. of Attachment "J" of Order No. R8-2005-0043, an explanation of why a facility did not implement any activities required by Order No. R8-2005-0043 (if not already included in the Evaluation Report), and records specified in Section 11., above. The method detection limit of each analytical parameter shall be included. Analytical results that are less than the method detection limit shall be reported as "less than the method detection limit". The discharger shall prepare and submit their Annual Stormwater Reports using the annual report forms provided by the State Water Board or Regional Water Board or shall submit their information on a form that contains equivalent information.

13. Watershed Monitoring Option

Regional Water Boards may approve proposals to substitute watershed monitoring for some or all of the requirements of this section if the Regional Water Board finds that the watershed monitoring will provide substantially similar monitoring information in evaluating discharger compliance with the requirements of Order No. R8-2005-0043.